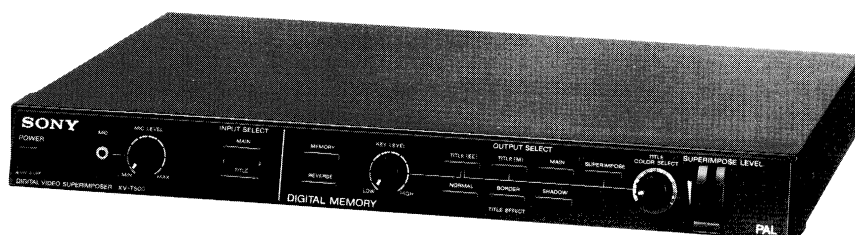


XV-T500

SERVICE MANUAL

*AEP Model
UK Model
Australian Model*



SPECIFICATIONS

Power supply unit

Power source	For the models available in the United Kingdom and Australia: AC 240V, 50 Hz For the model available in other countries: AC 220V, 50 Hz
Power consumption	17W

Input and output jacks

Video input	SOURCE 1/2 (phono jack) Input signal: 1V p-p, 75 ohms unbalanced, sync negative
Video output	LINE OUT 1/2 (phono jack) Output signal: 1V p-p, 75 ohms unbalanced, sync negative TITLE EE OUT (phono jack) Output signal: Approx. 1Vp-p, 75 ohms unbalanced, sync negative
Audio input 1/2	SOURCE 1/2 (phono jack) Input level: -10 dBs (0dBs=0.775Vrms) Input impedance: more than 47 kilohms
Audio output 1/2	MIC IN (mini jack, monaural) Input level: -60 dBs LINE OUT 1/2 (phono jack) Specified output: -10 dBs (250mV), 47 kilohms load Output impedance: Less than 10 kilohms

General

Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to +60°C (-40°F to 140°F)
Dimensions	Approx. 430 × 55 × 325 mm (w/h/d) (17 × 2 1/4 × 12 7/8 inches)
Weight	Approx. 4.1 kg (9 lb 1 oz)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

Note

This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.



ACC

DIGITAL VIDEO SUPERIMPOSER
SONY®

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

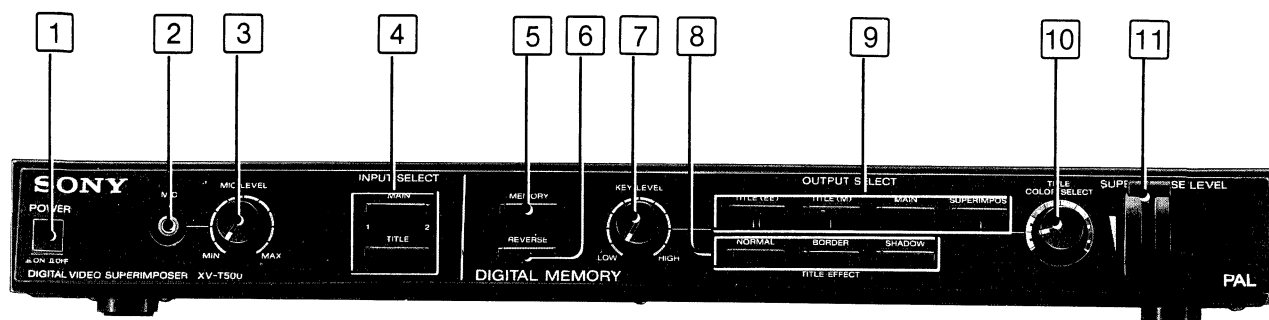
1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.

SECTION 1 GENERAL

1-1. FUNCTION OF CONTROLS

Refer to pages indicated in ● for details.

FRONT PANEL



1 POWER switch

2 MIC (microphone) IN jack

Allows connection of a microphone for adding narration.

3 MIC LEVEL control

Adjusts microphone volume from MIC IN jack.

4 INPUT SELECT buttons

MAIN 1 and 2: Switches between the SOURCE 1 and SOURCE 2 jacks on the rear panel. The lamp corresponding to the input selected lights up.

TITLE 1 and 2: Switches between the SOURCE 1 and SOURCE 2 jacks on the rear panel. The lamp corresponding to the input selected lights up.

It is possible to use either input jack for both title and main input.

5 MEMORY button ⑥

Press to memorize the title.

6 REVERSE button ⑧

Press to reverse the title lettering and background. The lamp lights up to indicate this function is in operation.

7 KEY LEVEL control ⑦

Adjusts the clarity of the title being input.

8 TITLE EFFECT buttons ⑦

Allow you to add border or shadow to memorized title letters.

NORMAL: Press to output title letters as input with no change.

BORDER: Press to add a black border to the left and right of each title letter.

SHADOW: Press to add a shadow to the right of each title letter.

9 OUTPUT SELECT buttons ⑥ ⑦

Switch the signals being output from the superimposer.

TITLE (EE): Press to display the title letters selected by the INPUT SELECT TITLE button. Can also display moving inputs.

TITLE (M): Press to display the memorized title.

MAIN: Press to display the background selected by the INPUT SELECT MAIN button.

SUPERIMPOSE: Press to superimpose the memorized title on the background selected by INPUT SELECT MAIN button.

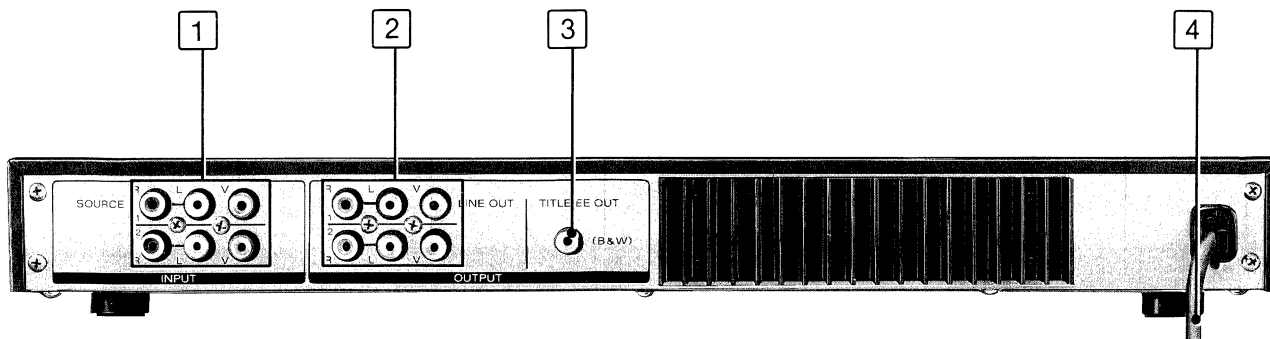
10 TITLE COLOR SELECT control ⑦

Allows you to choose title colors.

11 SUPERIMPOSE LEVEL lever ⑧

Allows fade-in and fade-out of titles. Normally set all the way at the top.

REAR PANEL



1 SOURCE jacks (phono jacks)

R (audio input, right channel)/L (audio input, left channel)/V (video input)

1/2: These allow connection of two separate input sources, such as a video camera or a VTR. Input can be switched using the INPUT SELECT button on the front panel.

2 LINE OUT jacks (phono jacks)

R (audio output, right channel)/L (audio output, left channel)/V (video output)

1/2: These allow connection of two separate output destinations, such as a monitor or a VTR. The picture selected by the OUTPUT SELECT button will be output simultaneously to both destinations.

3 TITLE EE OUT jack (phono jack)

Outputs the title or picture selected with the INPUT SELECT TITLE button in black and white. When you would like to continuously view the title regardless of the OUTPUT SELECT button position, connect this jack to a TV or a monitor.

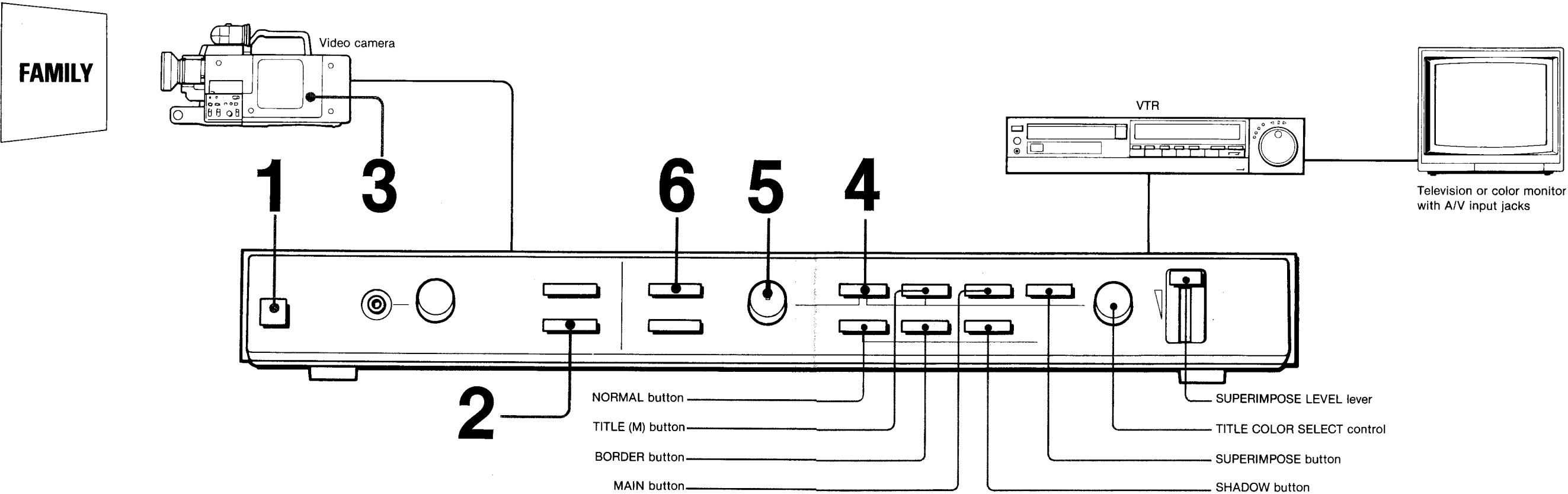
4 AC power cord

1-2. TO MEMORIZE TITLE FRAMES

Before memorizing a title, connect the XV-T500 to your equipment.

Preparations

- Check to be certain that the SUPERIMPOSE LEVEL lever is set all the way at the top.
- Turn on the power of the VTR and select the line input.
- Turn on the power of the television or color monitor and select the line input.



1 Turn on the power.

POWER

2 Press the INPUT SELECT TITLE button so that the "1" lamp lights up.

1 TITLE 2

When the video camera is connected to the SOURCE 2 jacks, press this button so that the "2" lamp lights up.

3 Frame the title with the camera, adjusting the focus.

FAMILY

4 Press the TITLE (EE) button.

TITLE (EE)

The title is displayed in two colors, white and the color selected with the TITLE COLOR SELECT control.

5 Adjust the KEY LEVEL control until the title letters are clearly displayed.

KEY LEVEL

LOW HIGH

6 Press the MEMORY button.

MEMORY

The red lamp lights up to indicate that the two-color still image has been memorized.

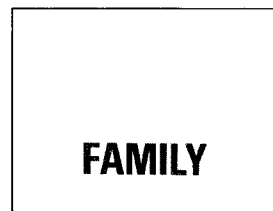
Notes

- Be sure to use a color video camera.
- When you press the MEMORY button, the title in memory will be erased, and replaced in memory by the picture selected with the INPUT SELECT TITLE button. The title in memory, however, is not replaced when the OUTPUT SELECT MAIN button is depressed. In this case, release the MAIN button.
- Audio input from sources fed through the SOURCE jacks remains at a constant level. It cannot be adjusted with the MIC LEVEL control.
- Title characters cannot be generated by the XV-T500 itself. Title characters must be input from a video camera, VTR, etc.
- If the background is dark, shadows and vertical lines which obscure the title may develop, even after adjustment of the KEY LEVEL control. In such cases, provide extra illumination for the telop card.

Once a title has been memorized, it will be retained in the XV-T500's memory until the power is turned off or another title is memorized.

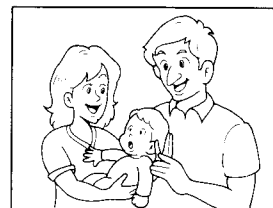
TO DISPLAY THE TITLE AND/OR THE PICTURE

To display the memorized title
Press the TITLE (M) button.

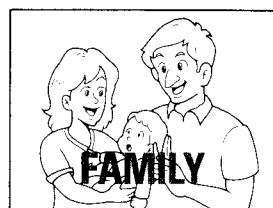


To display the picture being fed into the SOURCE jacks

- 1 Frame the object to be recorded in the video camera or play back the recorded tape.
- 2 Press the MAIN button.



To add a title to the picture selected with the MAIN button
Press the SUPERIMPOSE button.



To superimpose a new title in the superimposing mode
Frame a new title and press the MEMORY button.
A new title is superimposed on the camera output.

TO CHANGE THE COLOR OF THE TITLE

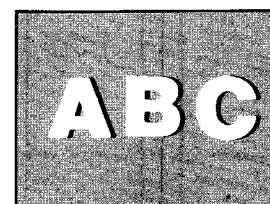
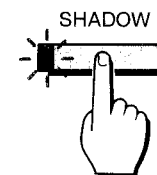
Turn the TITLE COLOR SELECT control.



Title color can be selected from among the 8 choices displayed above.

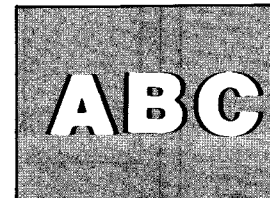
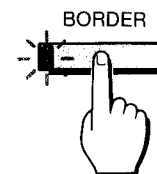
TO ADD SHADOW OR BORDER TO TITLE

To add shadow



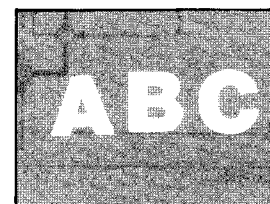
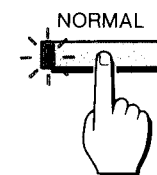
A shadow is applied to the right side of each title letter.

To add a border

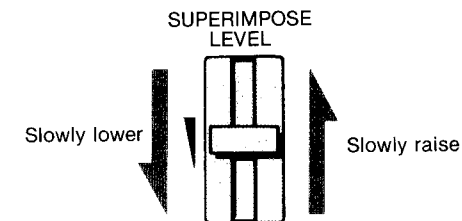


A black border is applied to the right and left of each title letter.

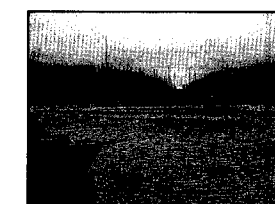
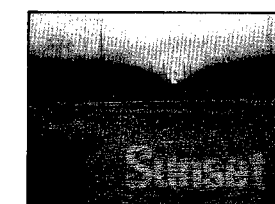
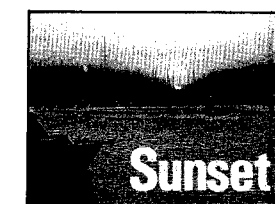
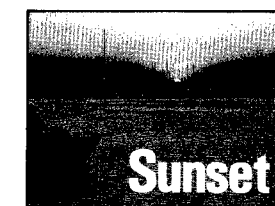
To return title letters to normal



TO FADE-IN OR FADE-OUT TITLES

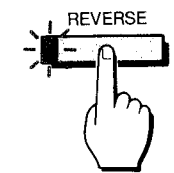


Fade-out
Title
slowly
disappears.

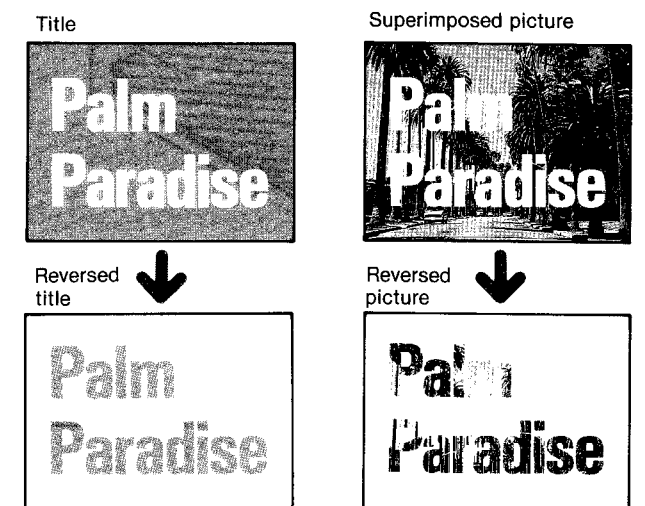


TO REVERSE TITLE AND BACKGROUND

Press the REVERSE button.



This will reverse the color scheme of the title and background.



TO MEMORIZE THE DESIRED PICTURE

You can memorize the picture selected with the INPUT SELECT TITLE button in two colors, white and another color selected with the TITLE COLOR SELECT control.

- 1 Press the TITLE (EE) button. Adjust image clarity with the KEY LEVEL control.
- 2 When the scene you want to memorize is on the screen, press the MEMORY button.
The scene displayed at the exact instant you press the button will be memorized in two colors.

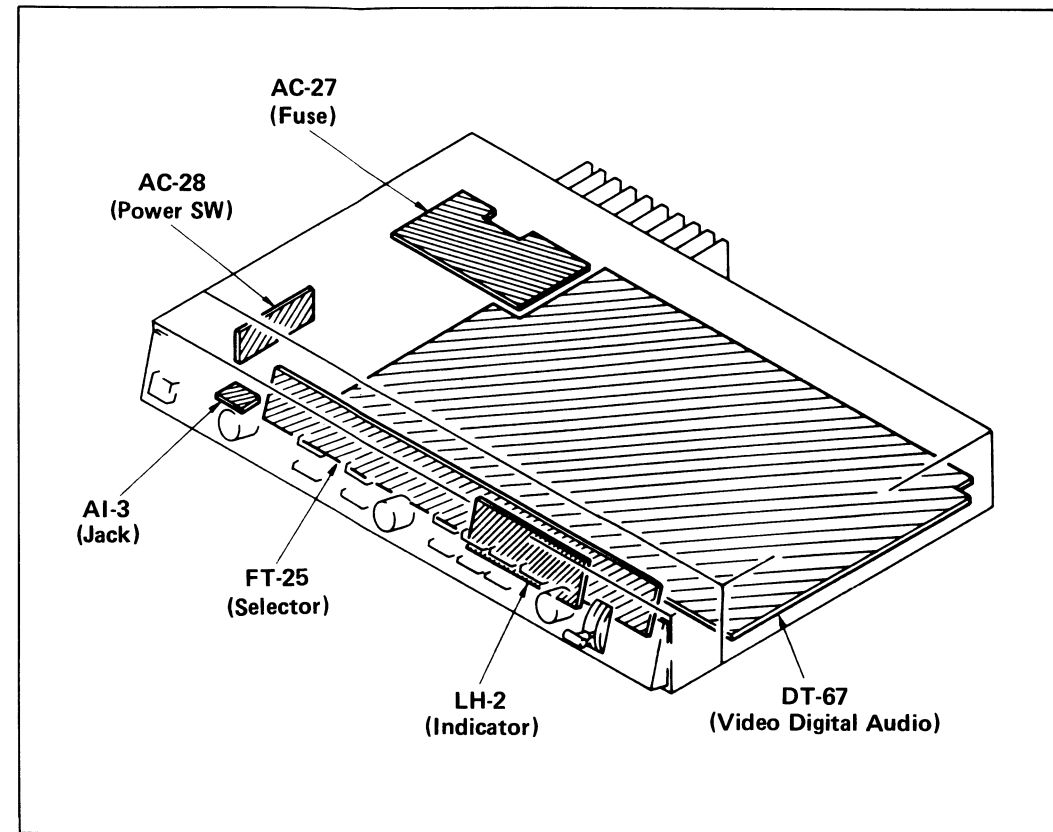
To display the memorized picture
Press the TITLE (M) button.

To superimpose the memorized picture on the picture selected by the INPUT SELECT MAIN button
Press the SUPERIMPOSE button.

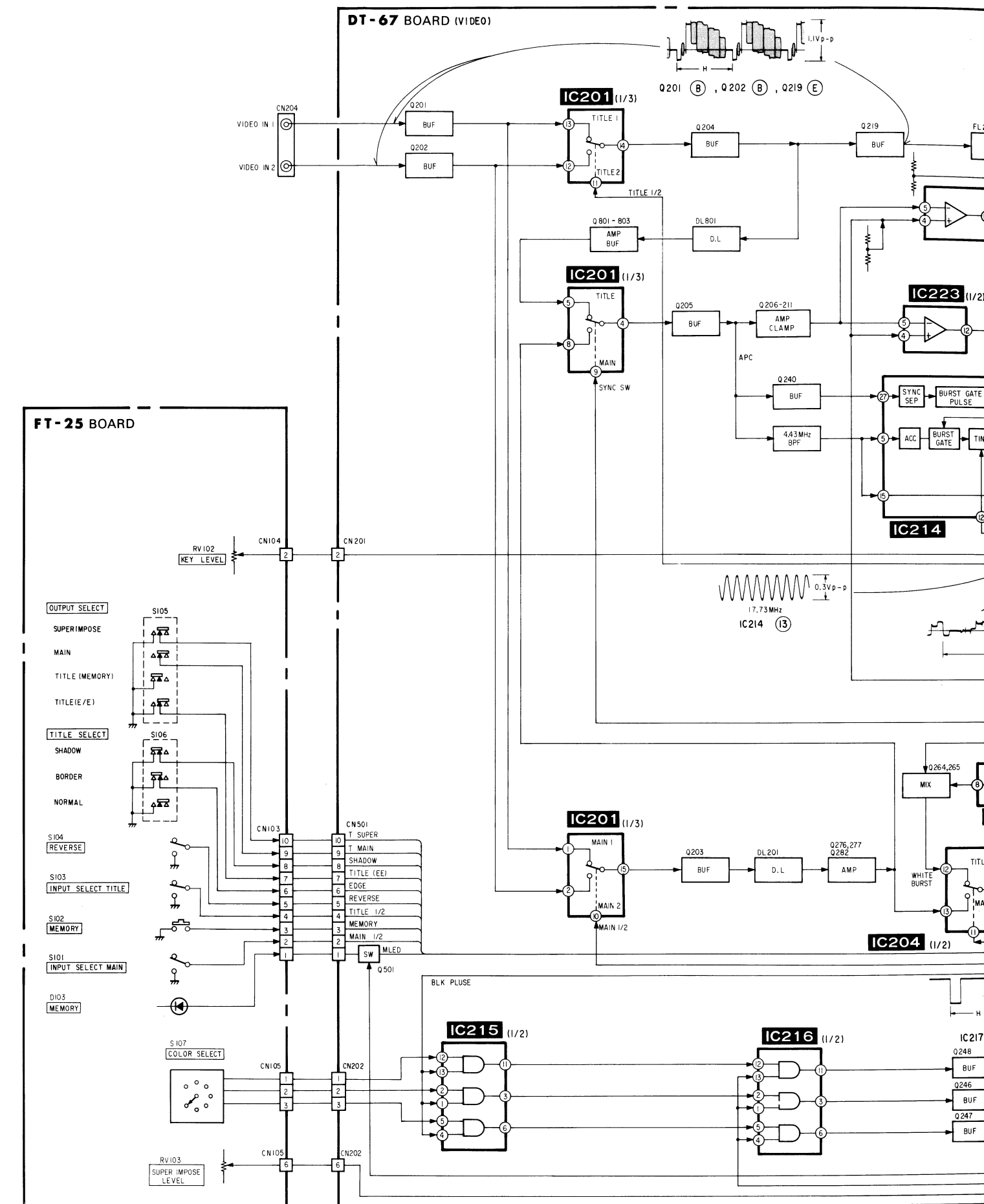
After a scene has been memorized, the color can be changed, border or shadow may be added, or the letters and background may be reversed.

SECTION 2 DIAGRAMS

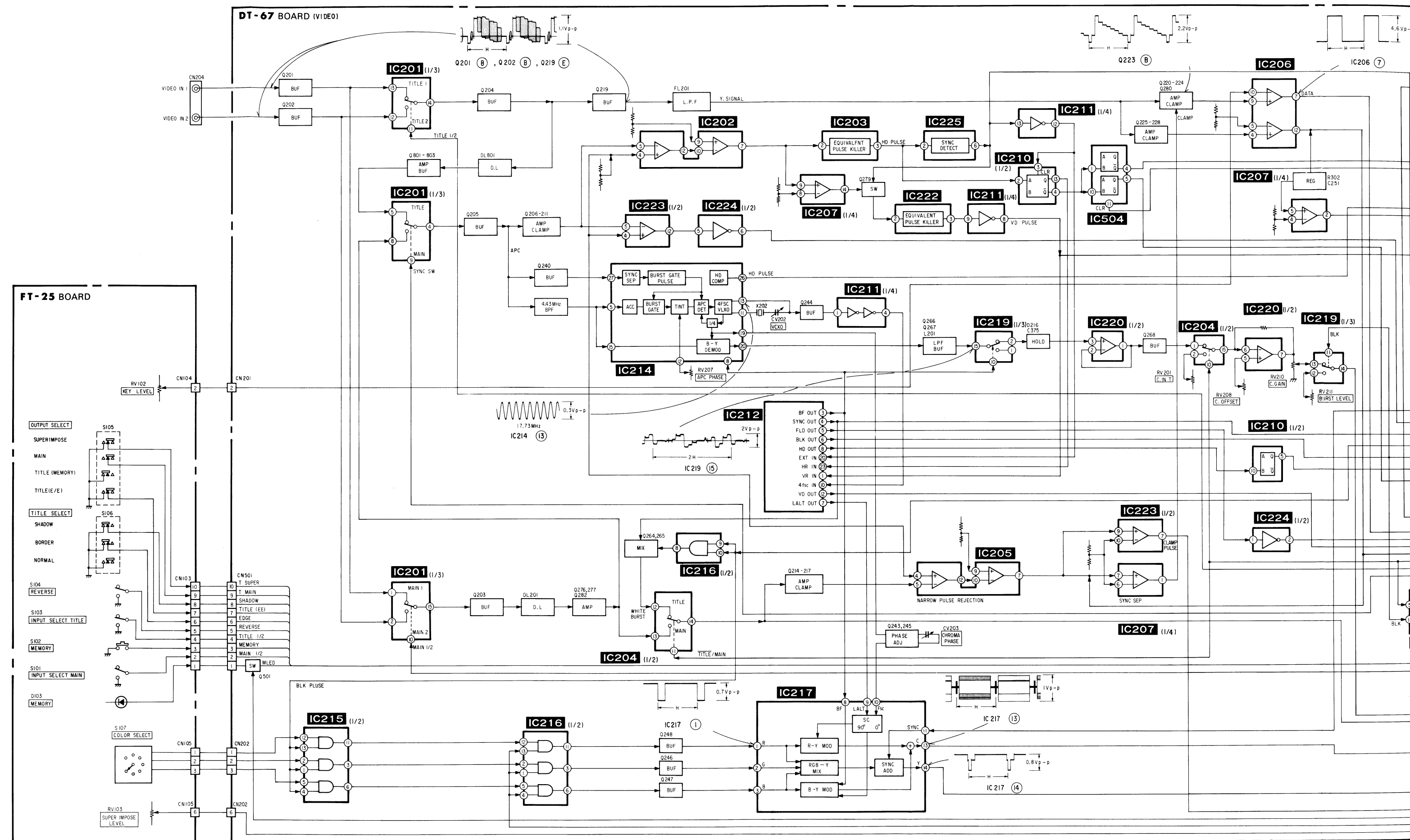
2-1. CIRCUIT BOARDS LOCATION



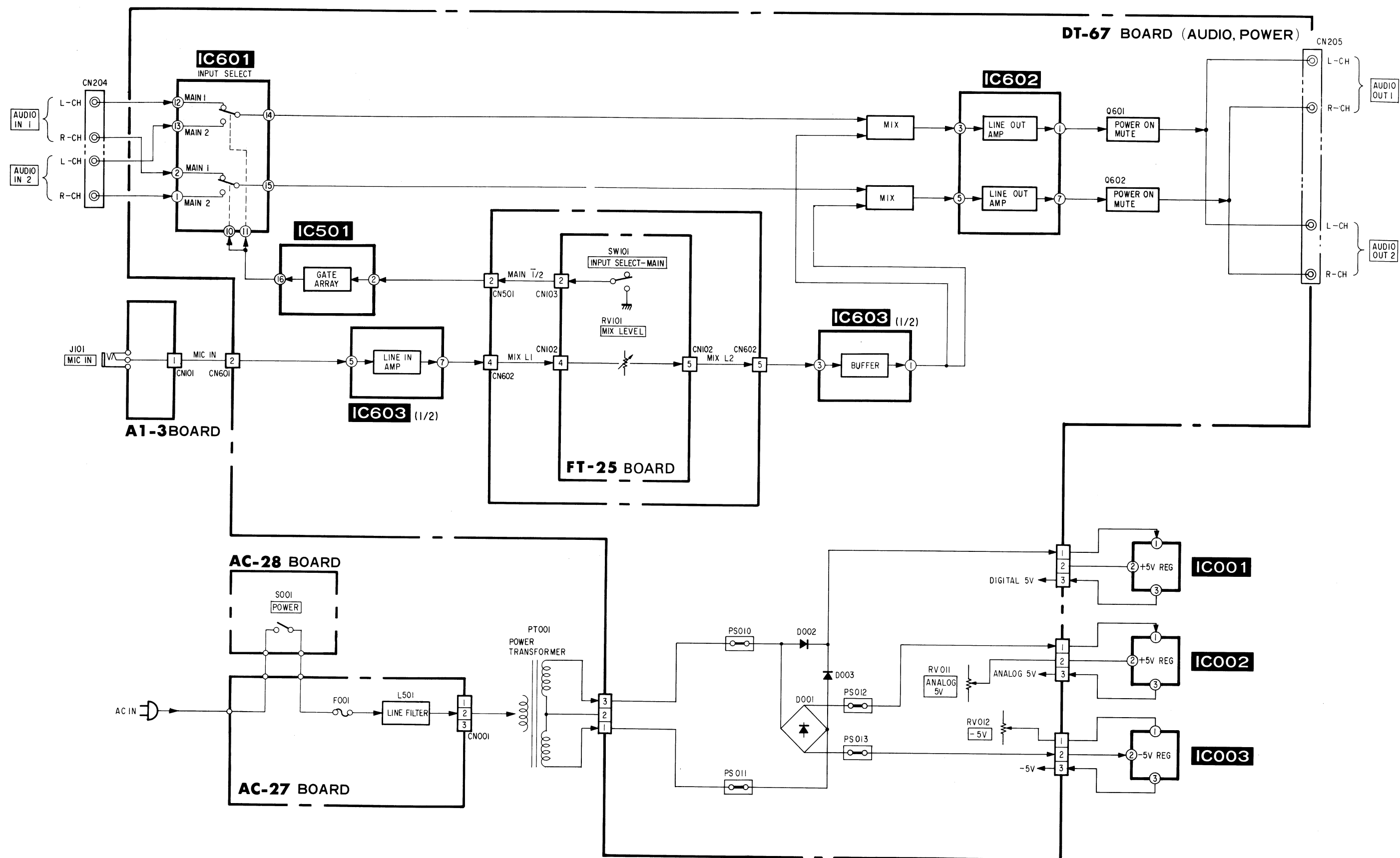
2-2. VIDEO BLOCK DIAGRAM



2-2. VIDEO BLOCK DIAGRAM

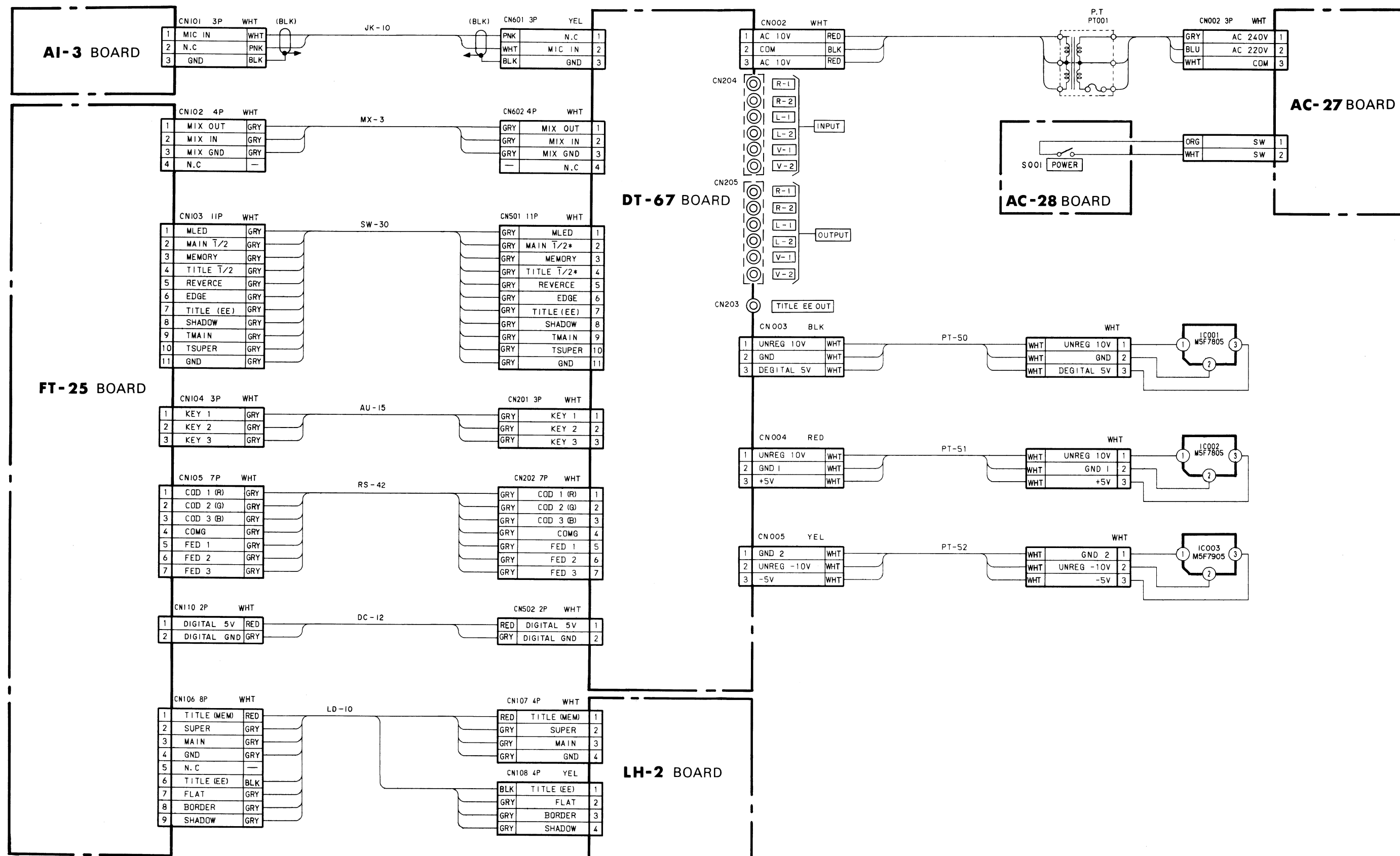


2-3. AUDIO / POWER SUPPLY BLOCK DIAGRAM



SECTION 3 PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM

3-1. FRAME SCHEMATIC DIAGRAM



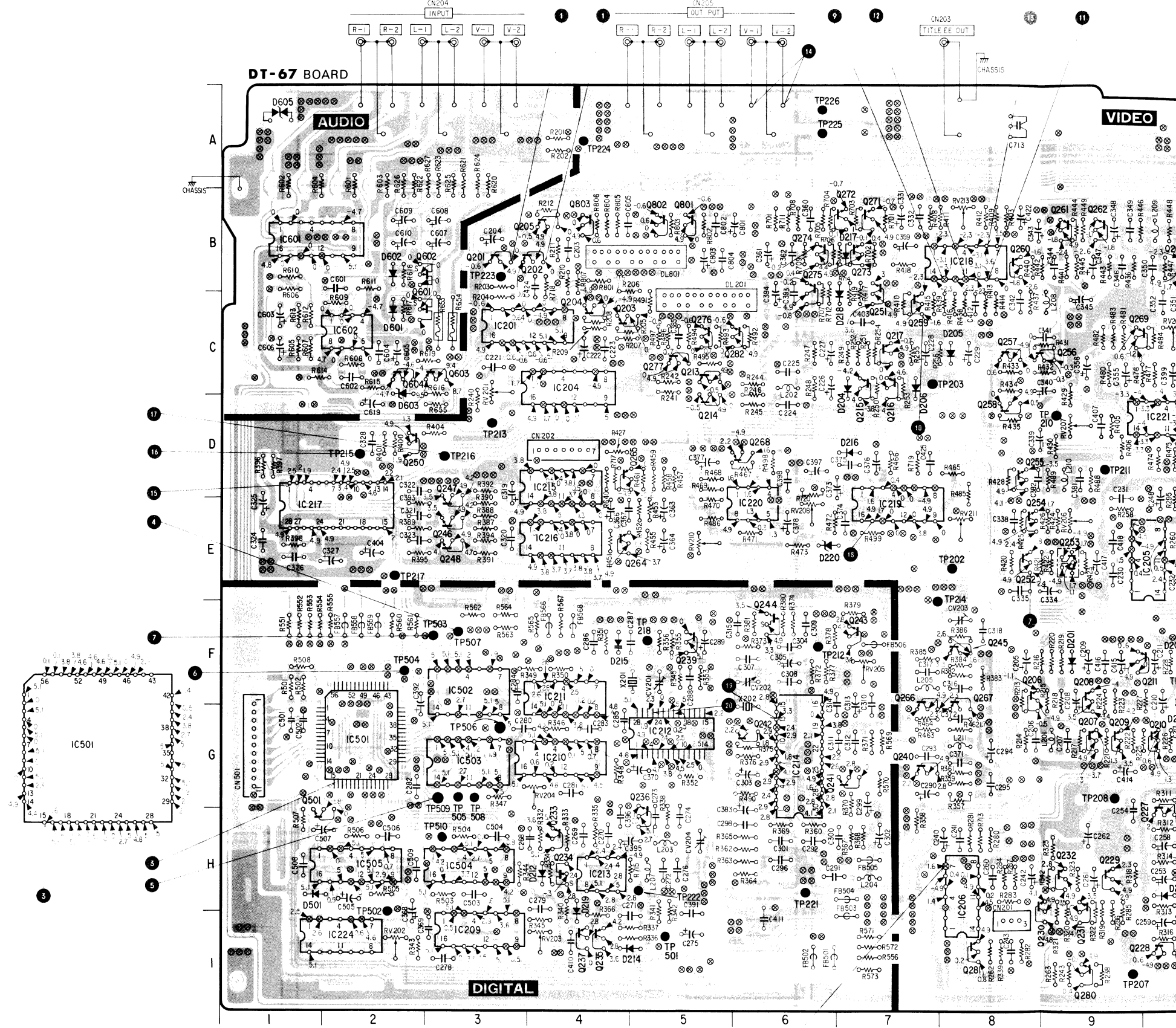
3-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM

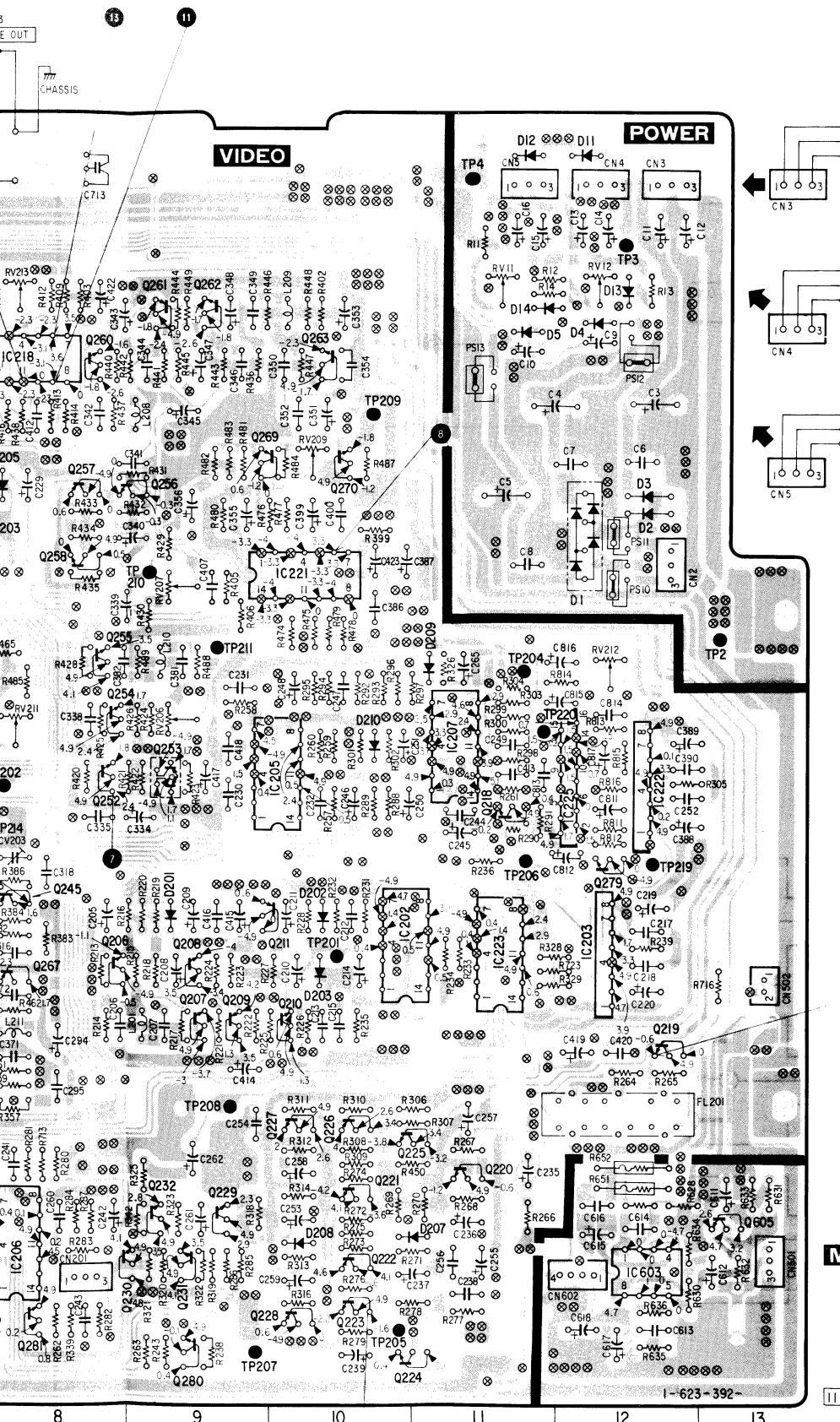
- Note:
- — : indicates a lead wire mounted on the component side.
 - — : indicates a lead wire mounted on the printed side.
 - ⊗ : Through hole.
 - ⊙ : soldering side.
- Digital transistors (DT-67: Q237, Q241, Q242, Q279, Q501) have the built-in resistor.

When indicating parts by reference number, please include the board name.

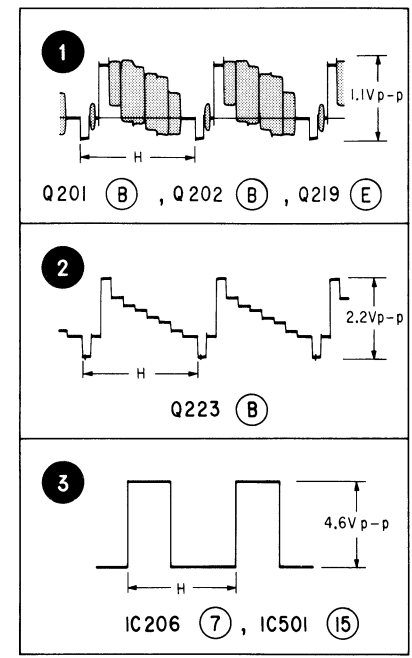
CN002	D-12	Q210	G-10	TP002	D-13
CN003	A-12	Q211	F-9	TP003	A-12
CN004	A-12	Q213	C-5	TP004	A-11
CN005	A-11	Q214	D-5	TP201	F-10
CN201	I-8	Q215	C-7	TP202	E-8
CN202	D-4	Q216	C-7	TP203	C-7
CN203	A-8	Q217	C-7	TP204	D-11
CN204	A-3	Q218	E-11	TP205	I-10
CN205	A-5	Q219	G-12	TP206	F-11
CN501	G-1	Q220	H-11	TP207	I-9
CN502	G-13	Q221	H-10	TP208	G-9
CN601	H-13	Q222	I-10	TP209	C-10
CN602	I-12	Q223	I-10	TP210	D-9
		Q224	I-10	TP211	D-9
CV201	F-5	Q225	H-11	TP212	F-6
CV202	F-6	Q226	H-10	TP213	D-3
CV203	F-8	Q227	H-10	TP214	F-7
CV204	H-5	Q228	I-10	TP215	D-2
		Q229	H-9	TP216	D-3
		Q230	I-9	TP217	E-2
D001	C-12	Q231	I-9	TP218	F-5
D002	C-12	Q232	H-9	TP219	F-12
D003	C-12	Q233	H-4	TP220	E-11
D004	B-11	Q234	H-4	TP221	H-6
D011	A-12	Q235	I-4	TP222	H-5
D012	A-11	Q236	H-5	TP223	B-3
D013	B-12	Q237	I-4	TP224	A-4
D014	B-11	Q239	F-5	TP225	A-6
D201	F-9	Q240	G-7	TP226	A-6
D202	F-10	Q241	G-7	TP501	I-5
D203	G-10	Q242	G-6	TP502	I-2
D204	C-7	Q243	F-7	TP503	F-3
D205	C-8	Q244	F-6	TP504	F-2
D206	C-7	Q245	F-8	TP505	G-3
D207	H-11	Q246	E-3	TP506	G-3
D208	H-10	Q247	E-3	TP507	F-3
D209	D-11	Q248	E-3	TP508	G-3
D210	E-10	Q250	D-2	TP509	G-3
D212	H-4	Q251	C-7	TP510	H-3
D214	I-4	Q252	E-8		
D215	F-4	Q253	E-9		
D216	D-7	Q254	E-8		
D217	B-7	Q255	D-8		
D218	C-7	Q256	C-9		
D219	I-4	Q257	C-8		
D220	E-6	Q258	D-8		
D501	H-1	Q259	C-7		
D601	C-2	Q260	B-8		
D602	B-2	Q261	B-9		
D603	D-2	Q262	B-9		
D605	A-1	Q263	B-10		
		Q264	E-4		
IC201	C-3	Q265	D-4		
IC202	F-10	Q266	G-7		
IC203	F-12	Q267	G-8		
IC204	C-4	Q268	D-6		
IC205	E-10	Q269	C-9		
IC206	H-8	Q270	C-10		
IC207	E-11	Q271	B-7		
IC209	I-3	Q272	B-7		
IC210	G-4	Q273	B-7		
IC211	F-4	Q274	B-6		
IC212	G-5	Q275	C-6		
IC213	H-4	Q276	C-5		
IC214	G-6	Q277	C-5		
IC215	D-4	Q279	F-12		
IC216	E-4	Q280	I-9		
IC217	E-2	Q281	I-8		
IC218	B-8	Q282	C-5		
IC219	E-7	Q501	H-1		
IC220	E-6	Q601	C-2		
IC221	D-10	Q602	B-2		
IC222	E-12	Q603	C-3		
IC223	F-11	Q604	C-2		
IC224	I-2	Q605	H-13		
IC225	E-12	Q801	B-5		
IC501	G-2	Q802	B-5		
IC502	F-3	Q803	B-4		
IC503	G-3				
IC504	H-3	RV011	B-11		
IC505	H-2	RV012	B-12		
IC601	B-1	RV201	C-3		
IC602	C-2	RV202	I-2		
IC603	I-12	RV203	I-4		
		RV204	G-4		
Q201	B-3	RV205	F-7		
Q202	B-4	RV206	E-9		
Q203	C-4	RV207	D-9		
Q204	C-4	RV208	E-6		
Q205	B-4	RV209	C-10		
Q206	F-8	RV210	E-5		
Q207	G-9	RV211	E-8		
Q208	F-9	RV212	D-12		
Q209	G-9	RV213	B-8		

[VIDEO BLOCK 1]
— Ref. No. DT-67 BOARD: No. 1000 Series —

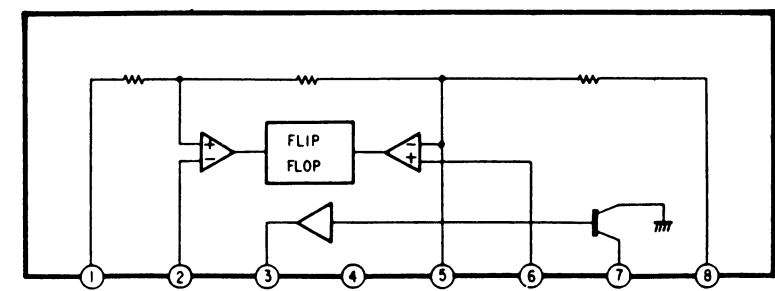




DT - 67 BOARD



M51848L



Note for schematic diagram

- All resistors are in ohms, 1/4W unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω .
- All capacitors are in μ F unless otherwise noted. pF: μ F. 50V or less are not indicated except for electrolytics and tantalums.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- : internal component.
- : adjustment for repair.
- : B+ bus.
- : B- bus.

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Readings are taken with a digital multimeter (DC10M Ω).
- Voltage variations may be noted due to normal production tolerances.

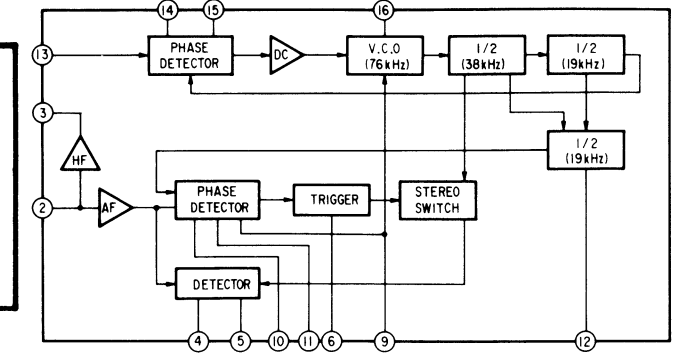
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

• Signal path

- : IN/OUT direction of B+, B-.

BA1332L



• Measuring conditions of voltage value and waveform

- INPUT { 1: COLOR BAR
2: COLOR BAR
- INPUT { MAIN: 1
SELECT TITLE 2
- OUTPUT { SUPER IMPOSE: ON
SELECT KEY LEVEL:
THE POINT WHERE THE GREEN OF COLOR BAR IS HIDDEN WITH THE TITLE COLOR (RED)
COLOR SELECT: RED
- TITLE EFFECT: NORMAL
SUPER IMPOSE LEVEL: MAX
REVERSE: OFF

3-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM

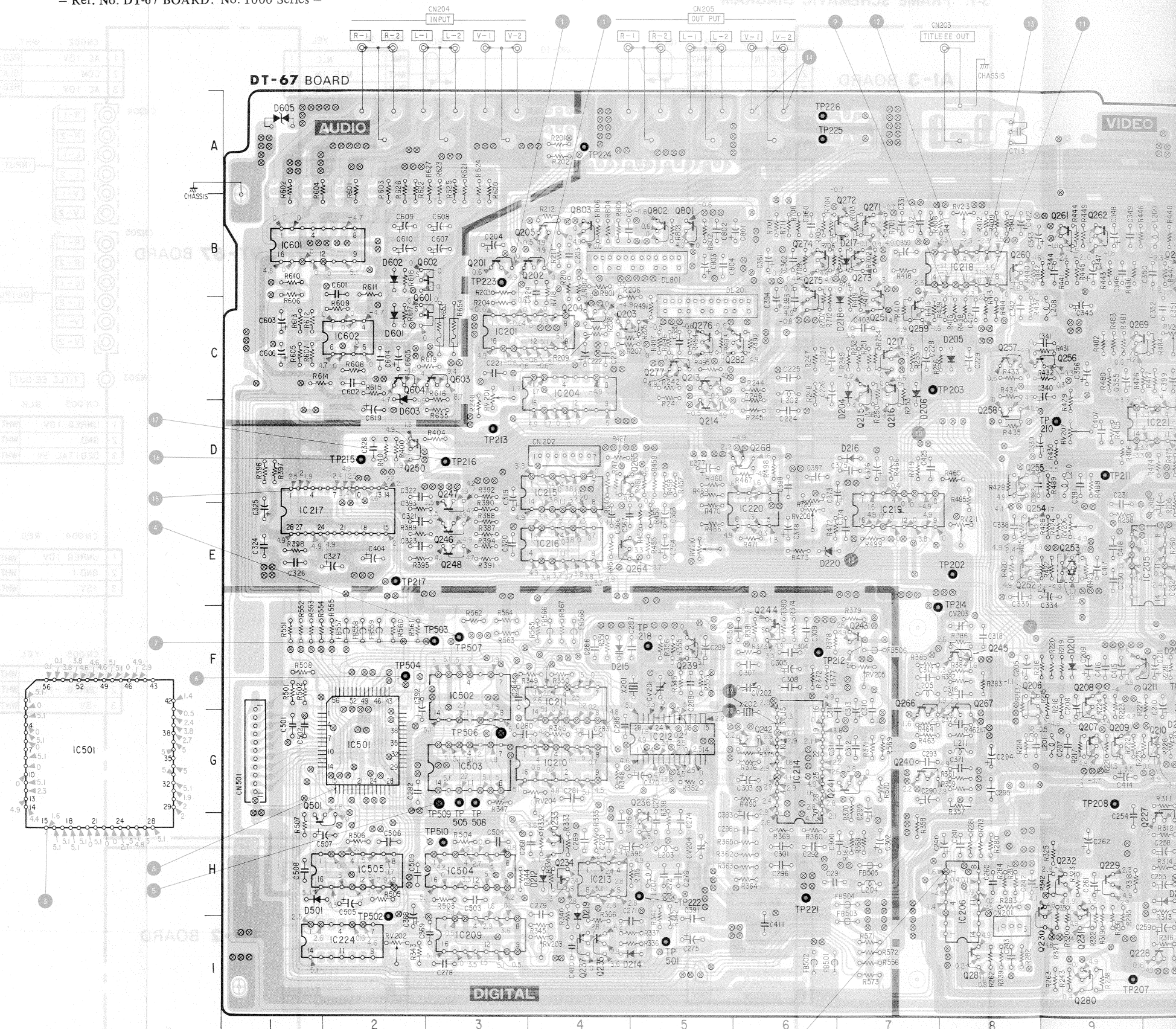
- Note:
- — : indicates a lead wire mounted on the component side.
 - — : indicates a lead wire mounted on the printed side.
 - ⊗ : Through hole.
 - : soldering side.
 - : component side.
- Digital transistors (DT-67: Q237, Q241, Q242, Q279, Q501) have the built-in resistor.

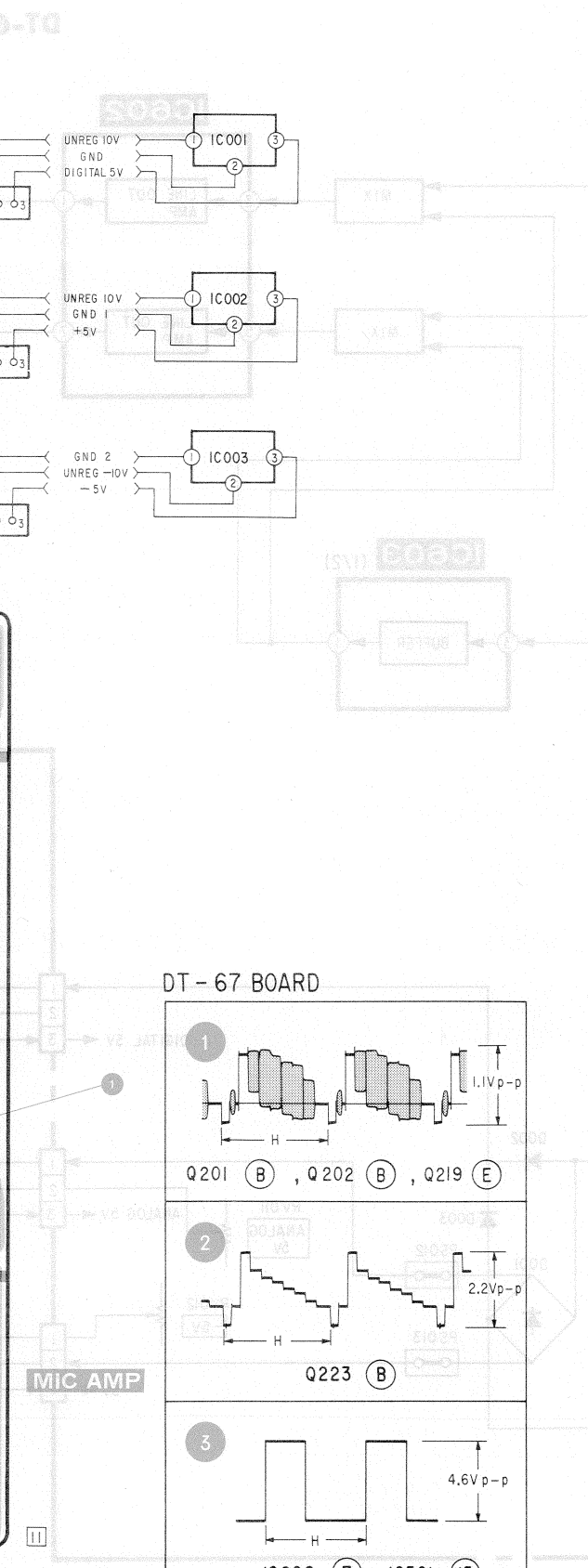
When indicating parts by reference number, please include the board name.

CN002	D-12	Q210	G-10	TP002	D-13
CN003	A-12	Q211	F-9	TP003	A-12
CN004	A-12	Q213	C-5	TP004	A-11
CN005	A-11	Q214	D-5	TP201	F-10
CN201	I-8	Q215	C-7	TP202	E-8
CN202	D-4	Q216	C-7	TP203	C-7
CN203	A-8	Q217	C-7	TP204	D-11
CN204	A-3	Q218	E-11	TP205	I-10
CN205	A-5	Q219	G-12	TP206	F-11
CN501	G-1	Q220	H-11	TP207	I-9
CN502	G-13	Q221	H-10	TP208	G-9
CN601	H-13	Q222	I-10	TP209	C-10
CN602	I-12	Q223	I-10	TP210	D-9
		Q224	I-10	TP211	D-9
		Q225	H-11	TP212	F-6
CV201	F-5	Q226	H-10	TP213	D-3
CV202	F-6	Q227	H-10	TP214	F-7
CV203	F-8	Q228	I-10	TP215	D-2
CV204	H-5	Q229	H-9	TP216	D-3
		Q230	I-9	TP217	E-2
D001	C-12	Q231	I-9	TP218	F-5
D002	C-12	Q232	H-9	TP219	F-12
D003	C-12	Q233	H-4	TP220	E-11
D004	B-11	Q234	H-4	TP221	H-6
D005	B-11	Q235	I-4	TP222	H-5
D011	A-12	Q236	H-5	TP223	B-3
D012	A-11	Q237	I-4	TP224	A-4
D013	B-12	Q238	F-5	TP225	A-6
D014	B-11	Q239	G-7	TP226	A-6
D201	F-9	Q240	G-7	TP501	I-5
D202	F-10	Q241	G-6	TP502	I-2
D203	G-10	Q242	F-7	TP503	F-3
D204	C-7	Q243	F-6	TP504	F-2
D205	C-8	Q244	F-8	TP505	G-3
D206	C-7	Q245	E-3	TP506	G-3
D207	H-11	Q246	E-3	TP507	F-3
D208	H-10	Q247	E-3	TP508	G-3
D209	D-11	Q248	D-2	TP509	G-3
D210	E-10	Q250	D-2	TP510	H-3
D211	H-4	Q251	C-7		
D212	I-4	Q252	E-8		
D213	F-4	Q253	E-9		
D214	D-7	Q254	E-8		
D215	B-7	Q255	D-8		
D216	C-7	Q256	C-9		
D217	I-4	Q257	C-8		
D218	E-6	Q258	D-8		
D219	H-1	Q259	C-7		
D220	C-2	Q260	B-8		
D501	B-2	Q261	B-9		
D601	D-2	Q262	B-9		
D602	A-1	Q263	B-10		
D603		Q264	E-4		
D605		Q265	D-4		
		Q266	G-7		
		Q267	G-8		
		Q268	D-6		
		Q269	C-9		
		Q270	C-10		
		Q271	B-7		
		Q272	B-7		
		Q273	B-7		
		Q274	B-6		
		Q275	C-6		
		Q276	C-5		
		Q277	C-5		
		Q278	F-12		
		Q279	I-9		
		Q280	I-8		
		Q281	C-5		
		Q282	C-5		
		Q283	H-1		
		Q284	C-2		
		Q285	B-5		
		Q286	B-5		
		Q287	B-4		
		Q288	B-11		
		Q289	B-12		
		Q290	C-3		
		Q291	I-2		
		Q292	I-4		
		Q293	G-4		
		Q294	F-7		
		Q295	E-9		
		Q296	D-9		
		Q297	E-6		
		Q298	C-10		
		Q299	E-5		
		Q300	E-8		
		Q301	D-12		
		Q302	B-8		

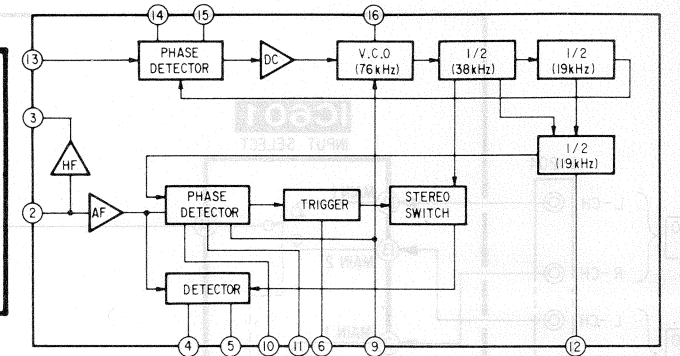
[VIDEO BLOCK 1]

— Ref. No. DT-67 BOARD: No. 1000 Series —





BA1332L



- Measuring conditions of voltage value and waveform

- ```

INPUT { 1: COLOR BAR
 2: COLOR BAR
INPUT { MAIN: 1
SELECT { TITLE: 2
OUTPUT { SUPER IMPOSE: ON
SELECT { KEY LEVEL:
 { THE POINT WHERE THE GREEN OF COLOR
 { BAR IS HIDDEN WITH THE TITLE COLOR
 { (RED)
 { COLOR SELECT: RED
TITLE EFFECT: NORMAL
SUPER IMPOSE LEVEL: MAX
REVERSE: OFF

```

**Note:** The components identified by shading and mark  are critical for safety. Replace only with part number specified.

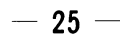
- **Signal path**

- ➡ : Y Signal
- ➡➡ : Y/CHROMA Signal
-  : IN/OUT direction of B+, B-

**[VIDEO BLOCK 1]**

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10







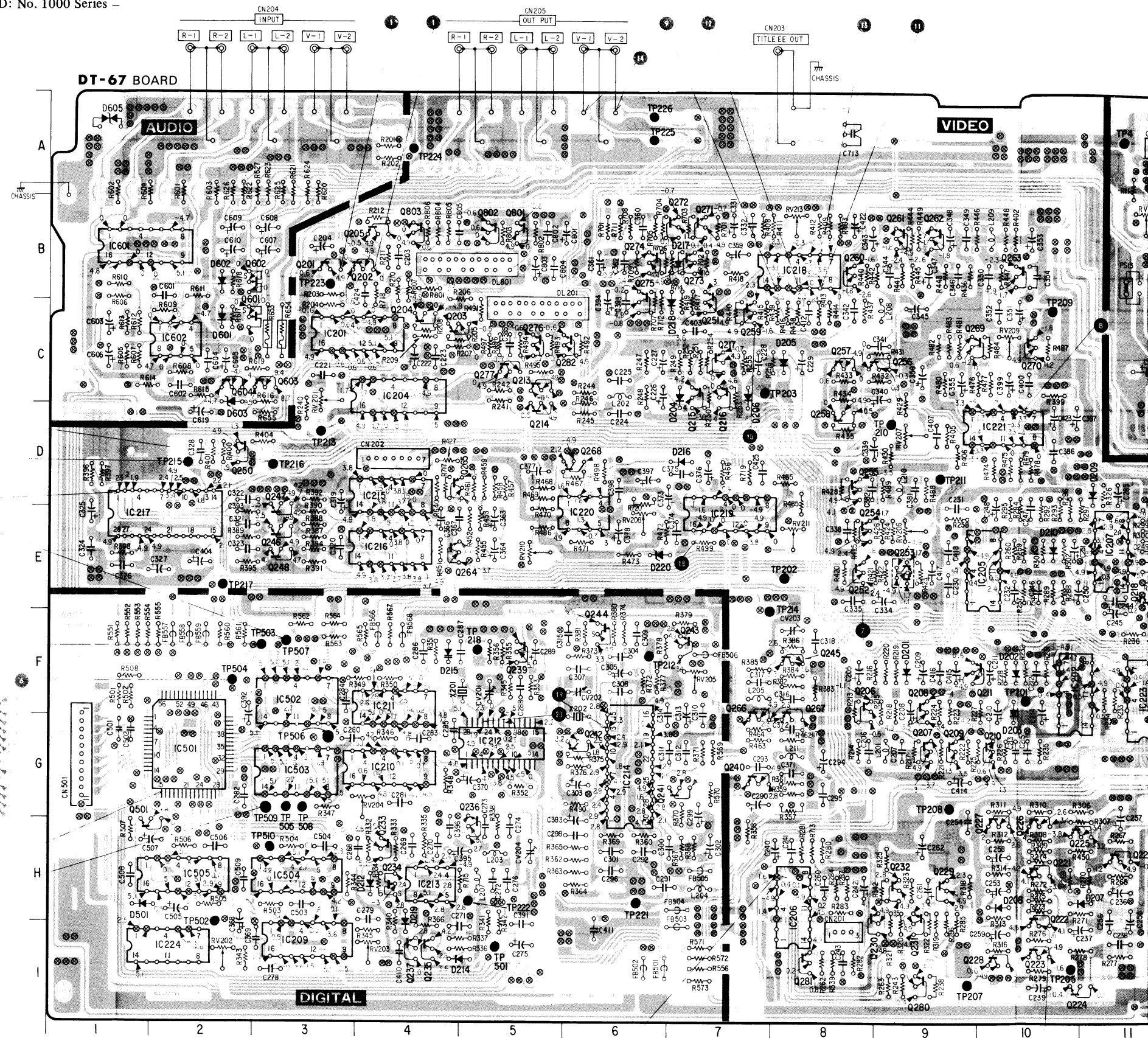
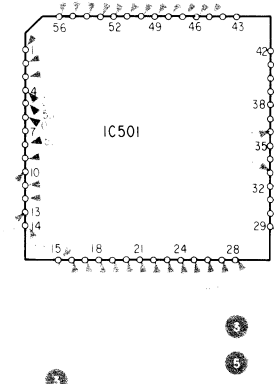


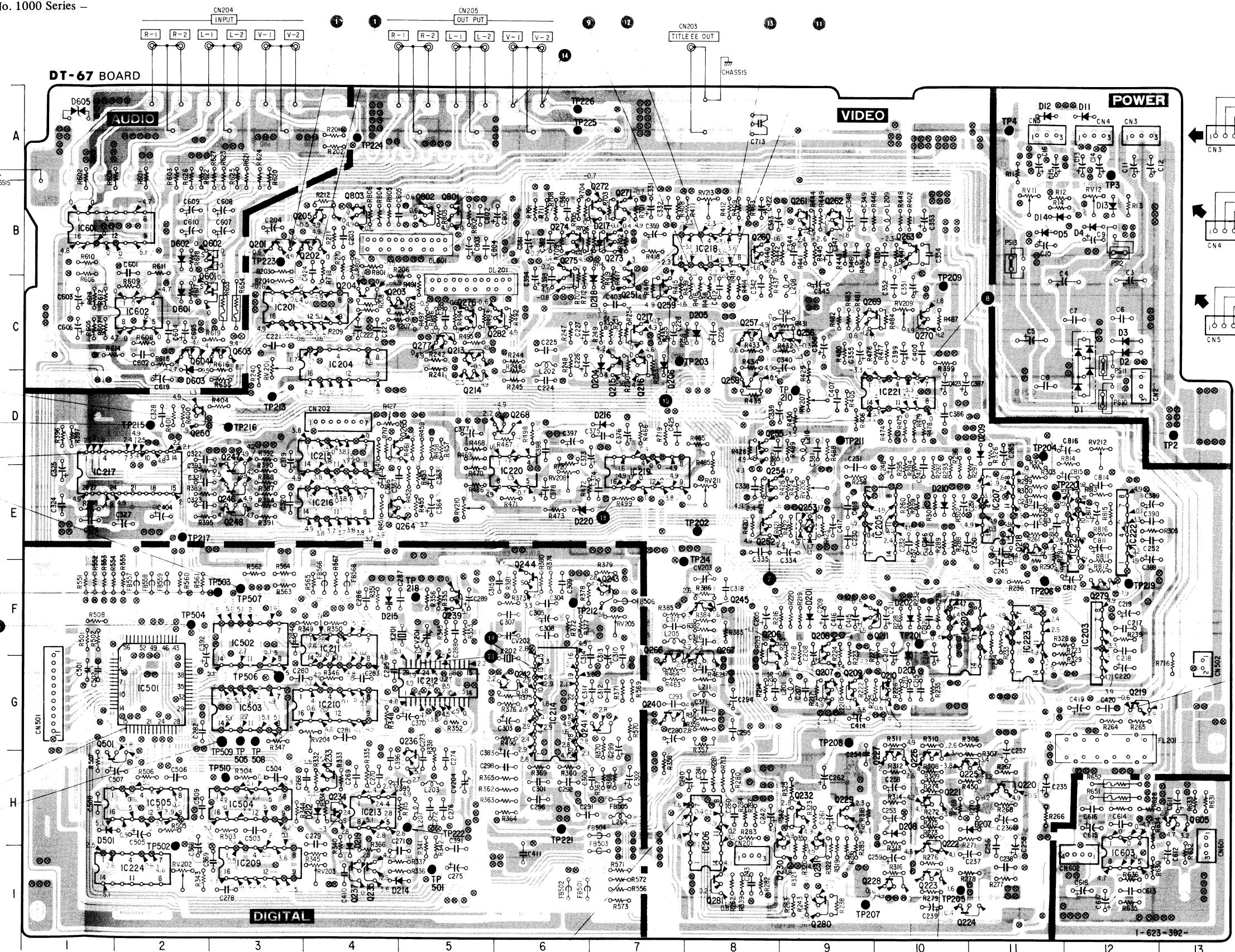
[VIDEO BLOCK 2]

[VIDEO BLOCK 2]

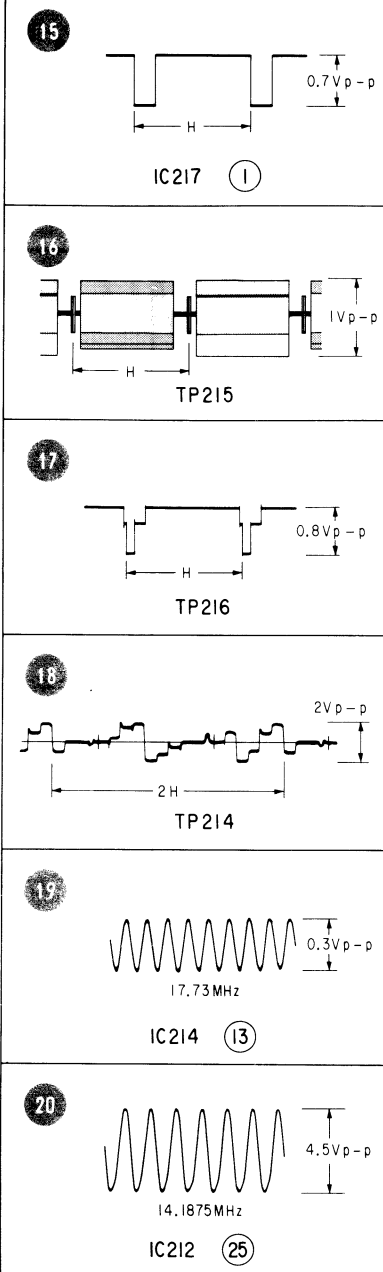
— Ref. No. DT-67 BOARD: No. 1000 Series —

|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| CN002 | D-12 | Q210  | G-10 | TP002 | D-13 |
| CN003 | A-12 | Q211  | F-9  | TP003 | A-12 |
| CN004 | A-12 | Q213  | C-5  | TP004 | A-11 |
| CN005 | A-11 | Q214  | D-5  | TP201 | F-10 |
| CN201 | I-8  | Q215  | C-7  | TP202 | E-8  |
| CN202 | D-4  | Q216  | C-7  | TP203 | C-7  |
| CN203 | A-8  | Q217  | C-7  | TP204 | D-11 |
| CN204 | A-3  | Q218  | E-11 | TP205 | I-10 |
| CN205 | A-5  | Q219  | G-12 | TP206 | F-11 |
| CN501 | G-1  | Q220  | H-11 | TP207 | I-9  |
| CN502 | G-13 | Q221  | H-10 | TP208 | G-9  |
| CN601 | H-13 | Q222  | I-10 | TP209 | C-10 |
| CN602 | I-12 | Q223  | I-10 | TP210 | D-9  |
|       |      | Q224  | I-10 | TP211 | D-9  |
| CV201 | F-5  | Q225  | H-11 | TP212 | F-6  |
| CV202 | F-6  | Q226  | H-10 | TP213 | D-3  |
| CV203 | F-8  | Q227  | H-10 | TP214 | F-7  |
| CV204 | H-5  | Q228  | I-10 | TP215 | D-2  |
|       |      | Q229  | H-9  | TP216 | D-3  |
| D001  | C-12 | Q230  | I-9  | TP217 | E-2  |
| D002  | C-12 | Q231  | I-9  | TP218 | F-5  |
| D003  | C-12 | Q232  | H-9  | TP219 | F-12 |
| D004  | B-12 | Q233  | H-4  | TP220 | E-11 |
| D005  | B-11 | Q234  | H-4  | TP221 | H-6  |
| D011  | A-12 | Q235  | I-4  | TP222 | H-5  |
| D012  | A-11 | Q236  | H-5  | TP223 | B-3  |
| D013  | B-12 | Q237  | I-4  | TP224 | A-4  |
| D014  | B-11 | Q239  | F-5  | TP225 | A-6  |
| D201  | F-9  | Q240  | G-7  | TP226 | A-6  |
| D202  | F-10 | Q241  | G-7  | TP501 | I-5  |
| D203  | G-10 | Q242  | G-6  | TP502 | I-2  |
| D204  | C-7  | Q243  | F-7  | TP503 | F-3  |
| D205  | C-8  | Q244  | F-6  | TP504 | F-2  |
| D206  | C-7  | Q245  | F-8  | TP505 | G-3  |
| D207  | H-11 | Q246  | E-3  | TP506 | G-3  |
| D208  | H-10 | Q247  | E-3  | TP507 | F-3  |
| D209  | D-11 | Q248  | E-3  | TP508 | G-3  |
| D210  | E-10 | Q250  | D-2  | TP509 | G-3  |
| D212  | H-4  | Q251  | C-7  | TP510 | H-3  |
| D214  | I-4  | Q252  | E-8  |       |      |
| D215  | F-4  | Q253  | E-9  |       |      |
| D216  | D-7  | Q254  | E-8  |       |      |
| D217  | B-7  | Q255  | D-8  |       |      |
| D218  | C-7  | Q256  | C-9  |       |      |
| D219  | I-4  | Q257  | C-8  |       |      |
| D220  | E-6  | Q258  | D-8  |       |      |
| D501  | H-1  | Q259  | C-7  |       |      |
| D601  | C-2  | Q260  | B-8  |       |      |
| D602  | B-2  | Q261  | B-9  |       |      |
| D603  | D-2  | Q262  | B-9  |       |      |
| D605  | A-1  | Q263  | B-10 |       |      |
|       |      | Q264  | E-4  |       |      |
| IC201 | C-3  | Q265  | D-4  |       |      |
| IC202 | F-10 | Q266  | G-7  |       |      |
| IC203 | F-12 | Q267  | G-8  |       |      |
| IC204 | C-4  | Q268  | D-6  |       |      |
| IC205 | E-10 | Q269  | C-9  |       |      |
| IC206 | H-8  | Q270  | C-10 |       |      |
| IC207 | E-11 | Q271  | B-7  |       |      |
| IC209 | I-3  | Q272  | B-7  |       |      |
| IC210 | G-4  | Q273  | B-7  |       |      |
| IC211 | F-4  | Q274  | B-6  |       |      |
| IC212 | G-5  | Q275  | C-6  |       |      |
| IC213 | H-4  | Q276  | C-5  |       |      |
| IC214 | G-6  | Q277  | C-5  |       |      |
| IC215 | D-4  | Q279  | F-12 |       |      |
| IC216 | E-4  | Q280  | I-9  |       |      |
| IC217 | E-2  | Q281  | I-8  |       |      |
| IC218 | B-8  | Q282  | C-5  |       |      |
| IC219 | E-7  | Q501  | H-1  |       |      |
| IC220 | E-6  | Q601  | C-2  |       |      |
| IC221 | D-10 | Q602  | B-2  |       |      |
| IC222 | E-12 | Q603  | C-3  |       |      |
| IC223 | F-11 | Q604  | C-2  |       |      |
| IC224 | I-2  | Q605  | H-13 |       |      |
| IC225 | E-12 | Q801  | B-5  |       |      |
| IC501 | G-2  | Q802  | B-5  |       |      |
| IC502 | F-3  | Q803  | B-4  |       |      |
| IC503 | G-3  |       |      |       |      |
| IC504 | H-3  | RV011 | B-11 |       |      |
| IC505 | H-2  | RV012 | B-12 |       |      |
| IC601 | B-1  | RV201 | C-3  |       |      |
| IC602 | C-2  | RV202 | I-2  |       |      |
| IC603 | I-12 | RV203 | I-4  |       |      |
|       |      | RV204 | G-4  |       |      |
| Q201  | B-3  | RV205 | F-7  |       |      |
| Q202  | B-4  | RV206 | E-9  |       |      |
| Q203  | C-4  | RV207 | D-9  |       |      |
| Q204  | C-4  | RV208 | E-6  |       |      |
| Q205  | B-4  | RV209 | C-10 |       |      |
| Q206  | F-8  | RV210 | E-5  |       |      |
| Q207  | G-9  | RV211 | E-8  |       |      |
| Q208  | F-9  | RV212 | D-12 |       |      |
| Q209  | G-9  | RV213 | B-8  |       |      |





DT-67 BOARD



Note:

- ○ : indicates a lead wire mounted on the component side.
- ● : indicates a lead wire mounted on the printed side.
- ⊗ : Through hole.
- : soldering side.

- Digital transistors (DT-67: Q237, Q241, Q242, Q279, Q501) have the built-in resistor.

When indicating parts by reference number, please include the board name.

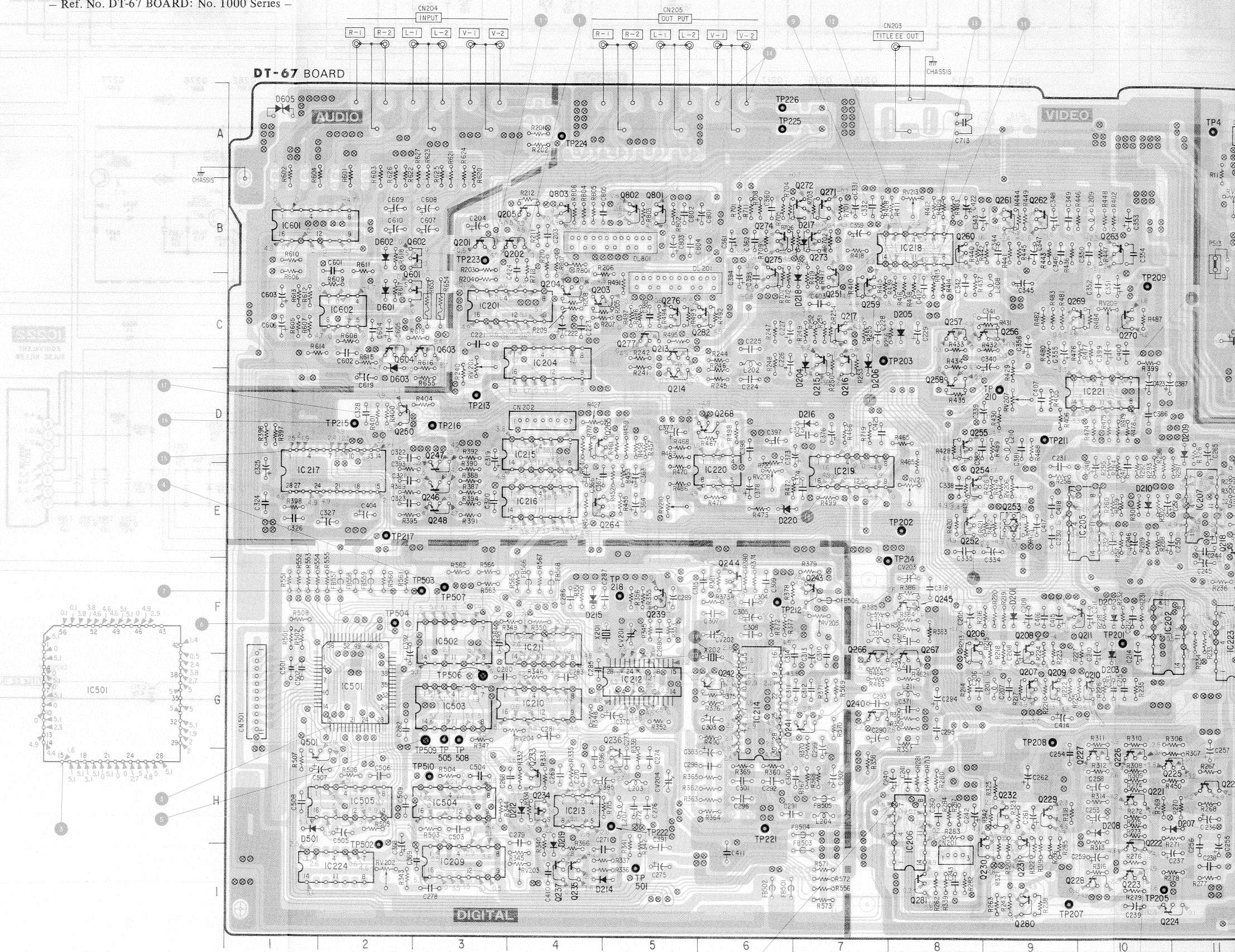


# DT-67

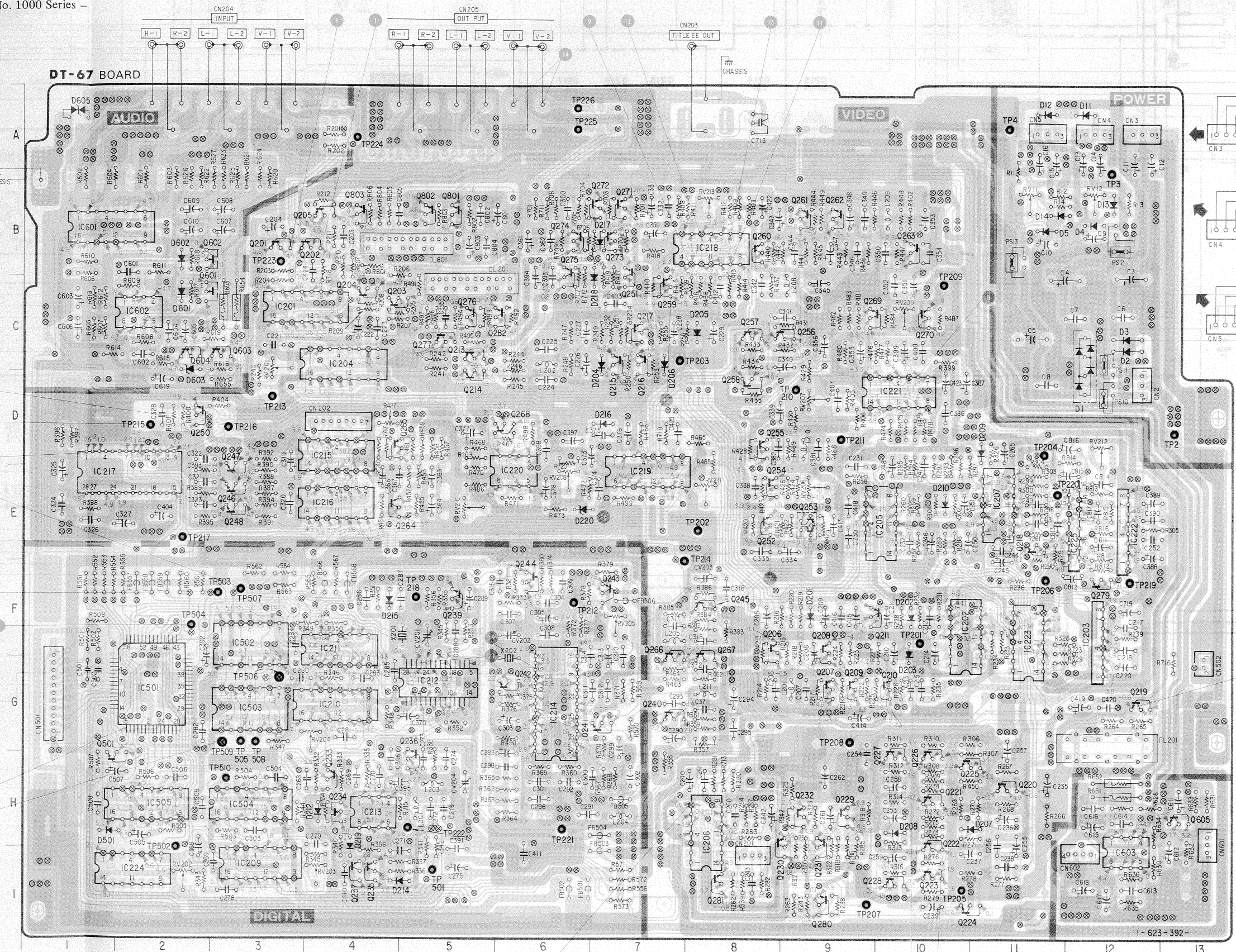
[VIDEO BLOCK 2]

— Ref. No. DT-67 BOARD: No. 1000 Series —

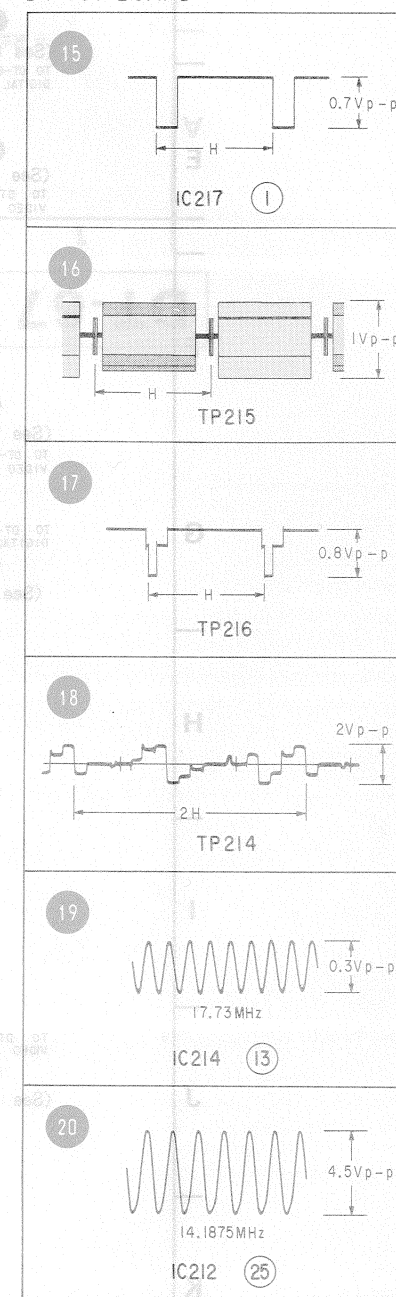
|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| CN002 | D-12 | Q210  | G-10 | TP002 | D-13 |
| CN003 | A-12 | Q211  | F-9  | TP003 | A-12 |
| CN004 | A-12 | Q213  | C-5  | TP004 | A-11 |
| CN005 | A-11 | Q214  | D-5  | TP201 | F-10 |
| CN201 | I-8  | Q215  | C-7  | TP202 | E-8  |
| CN202 | D-4  | Q216  | C-7  | TP203 | C-7  |
| CN203 | A-8  | Q217  | C-7  | TP204 | D-11 |
| CN204 | A-3  | Q218  | E-11 | TP205 | I-10 |
| CN205 | A-5  | Q219  | G-12 | TP206 | F-11 |
| CN501 | G-1  | Q220  | H-11 | TP207 | I-9  |
| CN502 | G-13 | Q221  | H-10 | TP208 | G-9  |
| CN601 | H-13 | Q222  | I-10 | TP209 | C-10 |
| CN602 | I-12 | Q223  | I-10 | TP210 | D-9  |
|       |      | Q224  | I-10 | TP211 | D-9  |
| CV201 | F-5  | Q225  | H-11 | TP212 | F-6  |
| CV202 | F-6  | Q226  | H-10 | TP213 | D-3  |
| CV203 | F-8  | Q227  | H-10 | TP214 | F-7  |
| CV204 | H-5  | Q228  | I-10 | TP215 | D-2  |
|       |      | Q229  | H-9  | TP216 | D-3  |
|       |      | Q230  | I-9  | TP217 | E-2  |
| D001  | C-12 | Q231  | I-9  | TP218 | F-5  |
| D002  | C-12 | Q232  | H-9  | TP219 | F-12 |
| D003  | C-12 | Q233  | H-4  | TP220 | E-11 |
| D004  | B-12 | Q234  | H-4  | TP221 | H-6  |
| D005  | B-11 | Q235  | I-4  | TP222 | H-5  |
| D011  | A-12 | Q236  | H-5  | TP223 | B-3  |
| D012  | A-11 | Q237  | I-4  | TP224 | A-4  |
| D013  | B-11 | Q238  | F-5  | TP225 | A-6  |
| D014  | B-11 | Q239  | F-5  | TP226 | A-6  |
| D201  | F-9  | Q240  | G-7  | TP501 | I-5  |
| D202  | F-10 | Q241  | G-7  | TP502 | I-2  |
| D203  | G-10 | Q242  | G-6  | TP503 | F-3  |
| D204  | C-7  | Q243  | F-7  | TP504 | F-2  |
| D205  | C-8  | Q244  | F-6  | TP505 | G-3  |
| D206  | C-7  | Q245  | F-8  | TP506 | G-3  |
| D207  | H-11 | Q246  | E-3  | TP507 | F-3  |
| D208  | H-10 | Q247  | E-3  | TP508 | G-3  |
| D209  | D-11 | Q248  | E-3  | TP509 | G-3  |
| D210  | E-10 | Q250  | D-2  | TP510 | H-3  |
| D212  | H-4  | Q251  | C-7  |       |      |
| D214  | I-4  | Q252  | E-8  |       |      |
| D215  | F-4  | Q253  | E-9  |       |      |
| D216  | D-7  | Q254  | E-8  |       |      |
| D217  | B-7  | Q255  | D-8  |       |      |
| D218  | C-7  | Q256  | C-9  |       |      |
| D219  | I-4  | Q257  | C-8  |       |      |
| D220  | E-6  | Q258  | D-8  |       |      |
| D501  | H-1  | Q259  | C-7  |       |      |
| D601  | C-2  | Q260  | B-8  |       |      |
| D602  | B-2  | Q261  | B-9  |       |      |
| D603  | D-2  | Q262  | B-9  |       |      |
| D605  | A-1  | Q263  | B-10 |       |      |
|       |      | Q264  | E-4  |       |      |
| IC201 | C-3  | Q265  | D-4  |       |      |
| IC202 | F-10 | Q266  | G-7  |       |      |
| IC203 | F-12 | Q267  | G-8  |       |      |
| IC204 | C-4  | Q268  | D-6  |       |      |
| IC205 | E-10 | Q269  | C-9  |       |      |
| IC206 | H-8  | Q270  | C-10 |       |      |
| IC207 | E-11 | Q271  | B-7  |       |      |
| IC209 | I-3  | Q272  | B-7  |       |      |
| IC210 | G-4  | Q273  | B-7  |       |      |
| IC211 | F-4  | Q274  | B-6  |       |      |
| IC212 | G-5  | Q275  | C-6  |       |      |
| IC213 | H-4  | Q276  | C-5  |       |      |
| IC214 | G-6  | Q277  | C-5  |       |      |
| IC215 | D-4  | Q279  | F-12 |       |      |
| IC216 | E-4  | Q280  | I-9  |       |      |
| IC217 | E-2  | Q281  | I-8  |       |      |
| IC218 | B-8  | Q282  | C-5  |       |      |
| IC219 | E-7  | Q501  | H-1  |       |      |
| IC220 | E-6  | Q601  | C-2  |       |      |
| IC221 | D-10 | Q602  | B-2  |       |      |
| IC222 | E-12 | Q603  | C-3  |       |      |
| IC223 | F-11 | Q604  | C-2  |       |      |
| IC224 | I-2  | Q605  | H-13 |       |      |
| IC225 | E-12 | Q801  | B-5  |       |      |
| IC501 | G-2  | Q802  | B-5  |       |      |
| IC502 | F-3  | Q803  | B-4  |       |      |
| IC503 | G-3  |       |      |       |      |
| IC504 | H-3  | RV011 | B-11 |       |      |
| IC505 | H-2  | RV012 | B-12 |       |      |
| IC601 | B-1  | RV201 | C-3  |       |      |
| IC602 | C-2  | RV202 | I-2  |       |      |
| IC603 | I-12 | RV203 | I-4  |       |      |
|       |      | RV204 | G-4  |       |      |
| Q201  | B-3  | RV205 | F-7  |       |      |
| Q202  | B-4  | RV206 | E-9  |       |      |
| Q203  | C-4  | RV207 | D-9  |       |      |
| Q204  | C-4  | RV208 | E-6  |       |      |
| Q205  | B-4  | RV209 | C-10 |       |      |
| Q206  | F-8  | RV210 | E-5  |       |      |
| Q207  | G-9  | RV211 | E-8  |       |      |
| Q208  | F-9  | RV212 | D-12 |       |      |
| Q209  | G-9  | RV213 | B-8  |       |      |







DT-67 BOARD



Note:

- : indicates a lead wire mounted on the component side.
- : indicates a lead wire mounted on the printed side.
- ⊗ : Through hole.
- ⊙ : soldering side.
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- Digital transistors (DT-67: Q237, Q241, Q242, Q279, Q501) have the built-in resistor.

When indicating parts by reference number, please include the board name.

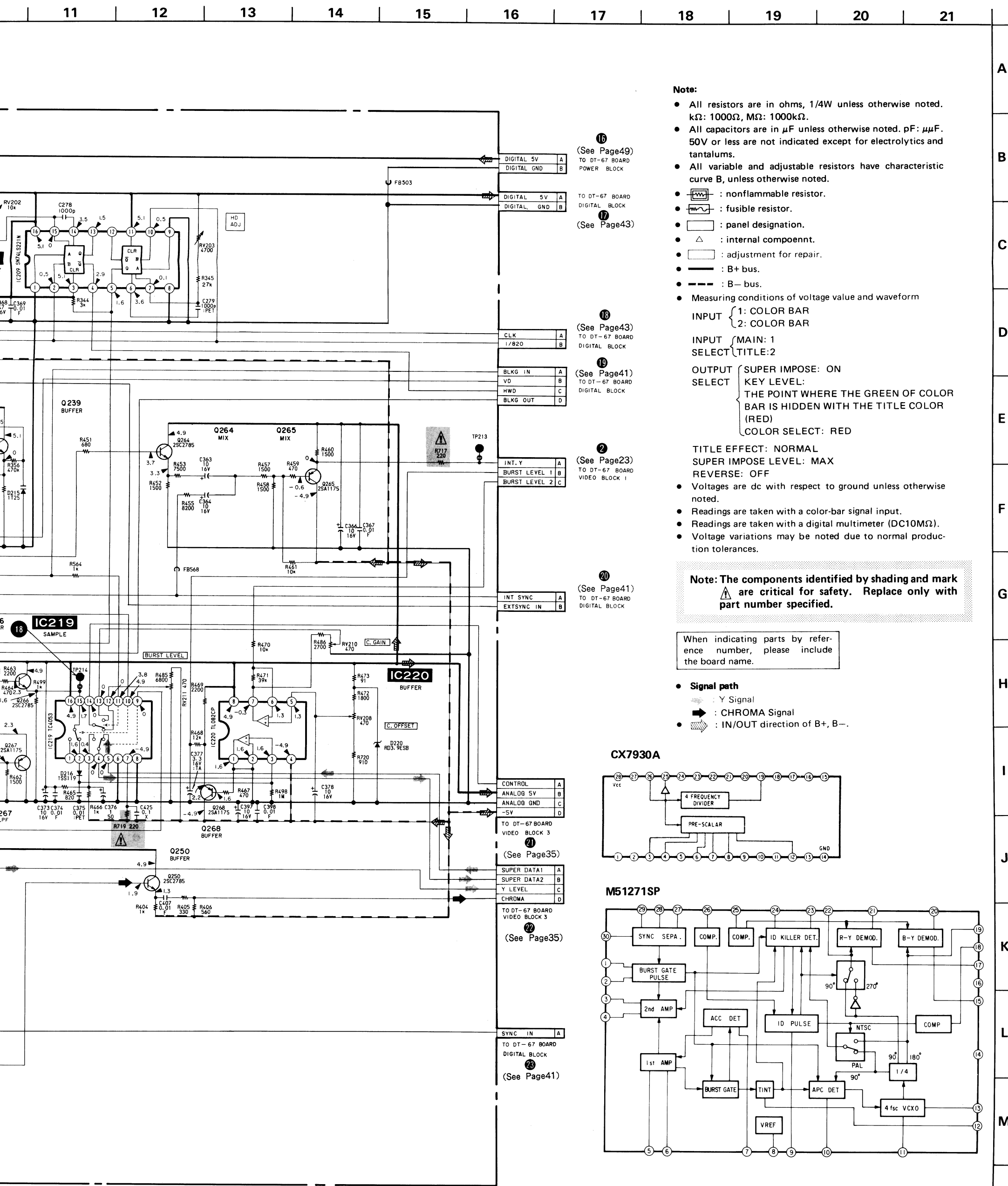


[ VIDEO BLOCK 2 ]

— Ref. No. DT-67 BOARD: No. 1000 Series —





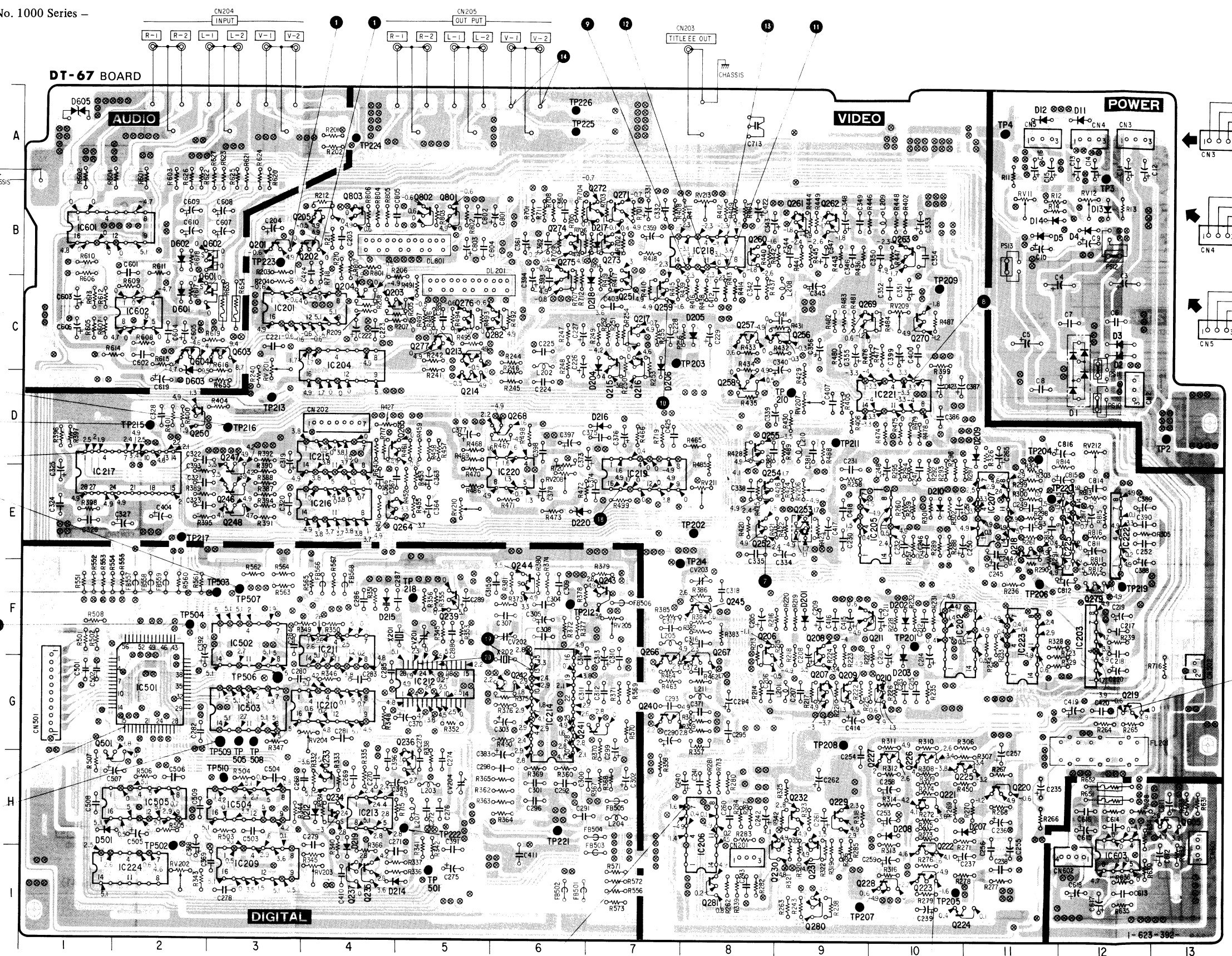
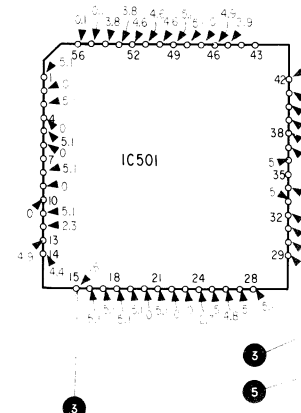


# DT-67

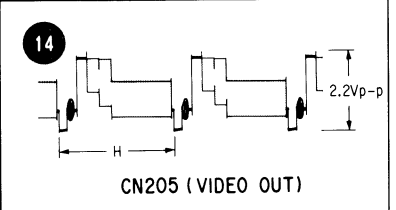
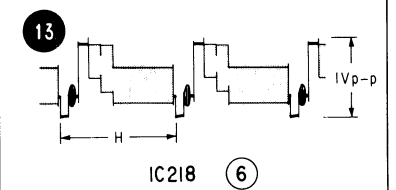
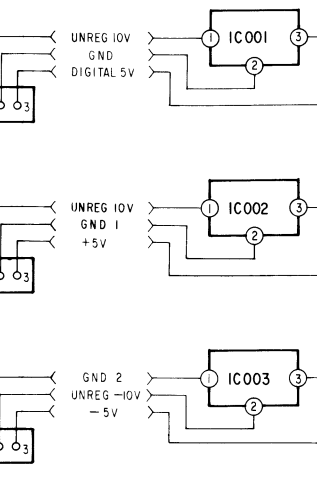
[VIDEO BLOCK 3]

— Ref. No. DT-67 BOARD: No. 1000 Series —

|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| CN002 | D-12 | Q210  | G-10 | TP002 | D-13 |
| CN003 | A-12 | Q211  | F-9  | TP003 | A-12 |
| CN004 | A-12 | Q213  | C-5  | TP004 | A-11 |
| CN005 | A-11 | Q214  | D-5  | TP201 | F-10 |
| CN201 | I-8  | Q215  | C-7  | TP202 | E-8  |
| CN202 | D-4  | Q216  | C-7  | TP203 | C-7  |
| CN203 | A-8  | Q217  | C-7  | TP204 | D-11 |
| CN204 | A-3  | Q218  | E-11 | TP205 | I-10 |
| CN205 | A-5  | Q219  | G-12 | TP206 | F-11 |
| CN501 | G-1  | Q220  | H-11 | TP207 | I-9  |
| CN502 | G-13 | Q221  | H-10 | TP208 | G-9  |
| CN601 | H-13 | Q222  | I-10 | TP209 | C-10 |
| CN602 | I-12 | Q223  | I-10 | TP210 | D-9  |
|       |      | Q224  | I-10 | TP211 | D-9  |
| CV201 | F-5  | Q225  | H-11 | TP212 | F-6  |
| CV202 | F-6  | Q226  | H-10 | TP213 | D-3  |
| CV203 | F-8  | Q227  | H-10 | TP214 | F-7  |
| CV204 | H-5  | Q228  | I-10 | TP215 | D-2  |
|       |      | Q229  | H-9  | TP216 | D-3  |
|       |      | Q230  | I-9  | TP217 | E-5  |
| D001  | C-12 | Q231  | I-9  | TP218 | F-5  |
| D002  | C-12 | Q232  | H-9  | TP219 | F-12 |
| D003  | C-12 | Q233  | H-4  | TP220 | E-11 |
| D004  | B-12 | Q234  | H-4  | TP221 | H-6  |
| D005  | B-11 | Q235  | I-4  | TP222 | H-5  |
| D011  | A-12 | Q236  | H-5  | TP223 | B-3  |
| D012  | A-11 | Q237  | I-4  | TP224 | A-4  |
| D013  | B-12 | Q238  | F-5  | TP225 | A-6  |
| D014  | B-11 | Q239  | G-7  | TP226 | A-6  |
| D201  | F-9  | Q240  | G-7  | TP501 | I-5  |
| D202  | F-10 | Q241  | G-7  | TP502 | I-2  |
| D203  | G-10 | Q242  | G-6  | TP503 | F-3  |
| D204  | C-7  | Q243  | F-7  | TP504 | F-2  |
| D205  | C-8  | Q244  | F-6  | TP505 | G-3  |
| D206  | C-7  | Q245  | F-8  | TP506 | G-3  |
| D207  | H-11 | Q246  | E-3  | TP507 | F-3  |
| D208  | H-10 | Q247  | E-3  | TP508 | G-3  |
| D209  | D-11 | Q248  | E-3  | TP509 | G-3  |
| D210  | E-10 | Q250  | D-2  | TP510 | H-3  |
| D212  | H-4  | Q251  | C-7  |       |      |
| D214  | I-4  | Q252  | E-8  |       |      |
| D215  | F-4  | Q253  | E-9  |       |      |
| D216  | D-7  | Q254  | E-8  |       |      |
| D217  | B-7  | Q255  | D-8  |       |      |
| D218  | C-7  | Q256  | C-9  |       |      |
| D219  | I-4  | Q257  | C-8  |       |      |
| D220  | E-6  | Q258  | D-8  |       |      |
| D501  | H-1  | Q259  | C-7  |       |      |
| D601  | C-2  | Q260  | B-8  |       |      |
| D602  | B-2  | Q261  | B-9  |       |      |
| D603  | D-2  | Q262  | B-9  |       |      |
| D605  | A-1  | Q263  | B-10 |       |      |
|       |      | Q264  | E-4  |       |      |
| IC201 | C-3  | Q265  | D-4  |       |      |
| IC202 | F-10 | Q266  | G-7  |       |      |
| IC203 | F-12 | Q267  | G-8  |       |      |
| IC204 | C-4  | Q268  | D-6  |       |      |
| IC205 | E-10 | Q269  | C-9  |       |      |
| IC206 | H-8  | Q270  | C-10 |       |      |
| IC207 | E-11 | Q271  | B-7  |       |      |
| IC209 | I-3  | Q272  | B-7  |       |      |
| IC210 | G-4  | Q273  | B-7  |       |      |
| IC211 | F-4  | Q274  | B-6  |       |      |
| IC212 | G-5  | Q275  | C-6  |       |      |
| IC213 | H-4  | Q276  | C-5  |       |      |
| IC214 | G-6  | Q277  | C-5  |       |      |
| IC215 | D-4  | Q279  | F-12 |       |      |
| IC216 | E-4  | Q280  | I-9  |       |      |
| IC217 | E-2  | Q281  | I-8  |       |      |
| IC218 | B-8  | Q282  | C-5  |       |      |
| IC219 | E-7  | Q501  | H-1  |       |      |
| IC220 | E-6  | Q601  | C-2  |       |      |
| IC221 | D-10 | Q602  | C-2  |       |      |
| IC222 | E-12 | Q603  | C-3  |       |      |
| IC223 | F-11 | Q604  | C-2  |       |      |
| IC224 | I-2  | Q605  | H-13 |       |      |
| IC225 | E-12 | Q801  | B-5  |       |      |
| IC501 | G-2  | Q802  | B-5  |       |      |
| IC502 | F-3  | Q803  | B-4  |       |      |
| IC503 | G-3  |       |      |       |      |
| IC504 | H-3  | RV011 | B-11 |       |      |
| IC505 | H-2  | RV012 | B-12 |       |      |
| IC601 | B-1  | RV201 | C-3  |       |      |
| IC602 | C-2  | RV202 | I-2  |       |      |
| IC603 | I-12 | RV203 | I-4  |       |      |
|       |      | RV204 | G-4  |       |      |
| Q201  | B-3  | RV205 | F-7  |       |      |
| Q202  | B-4  | RV206 | E-9  |       |      |
| Q203  | C-4  | RV207 | D-9  |       |      |
| Q204  | C-4  | RV208 | E-6  |       |      |
| Q205  | B-4  | RV209 | C-10 |       |      |
| Q206  | F-8  | RV210 | E-5  |       |      |
| Q207  | G-9  | RV211 | E-8  |       |      |
| Q208  | F-9  | RV212 | D-12 |       |      |
| Q209  | G-9  | RV213 | B-8  |       |      |







When indicating parts by reference number, please include the board name.

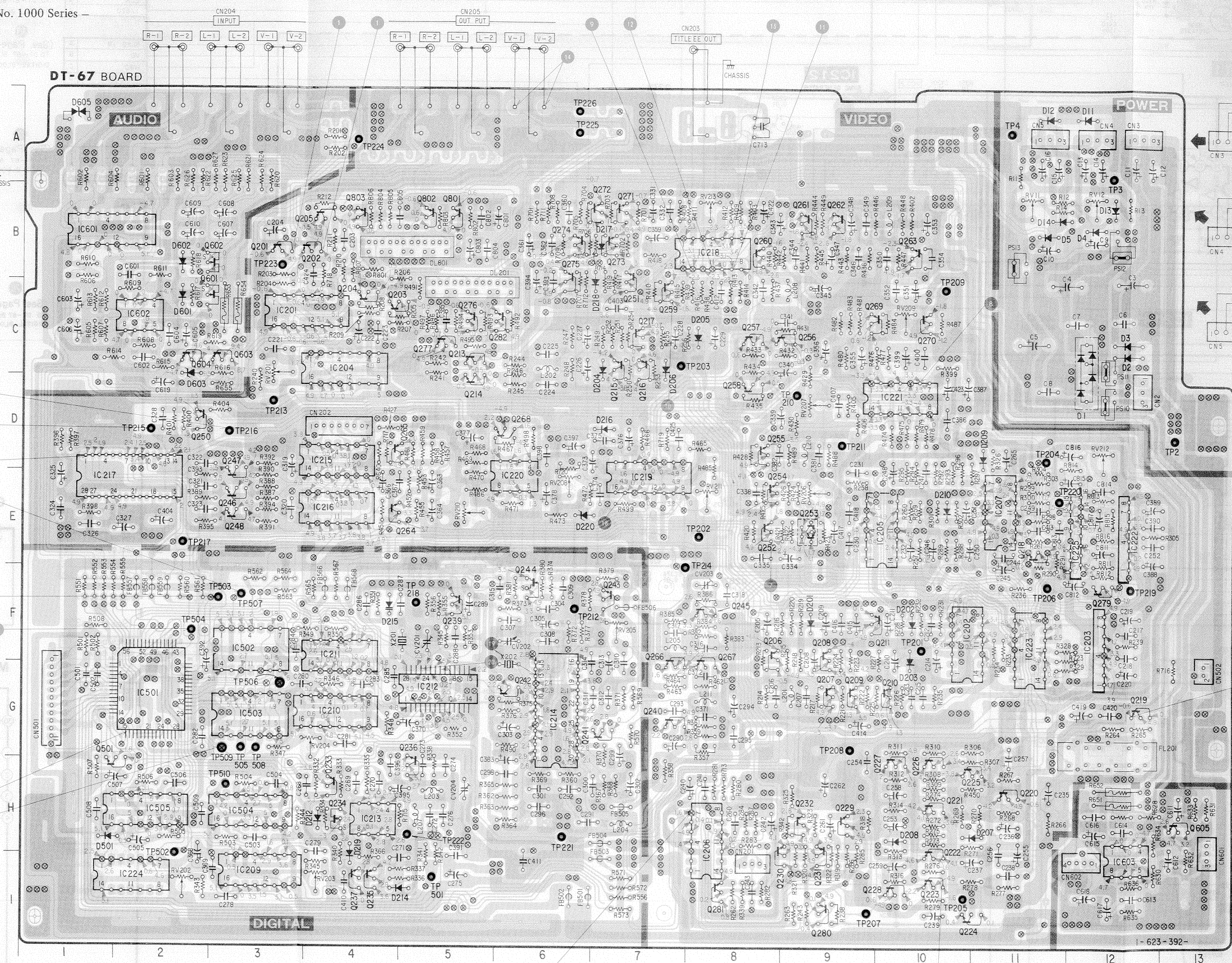
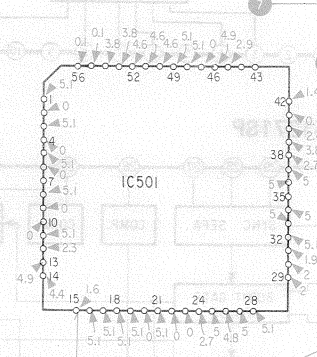


# DT-67

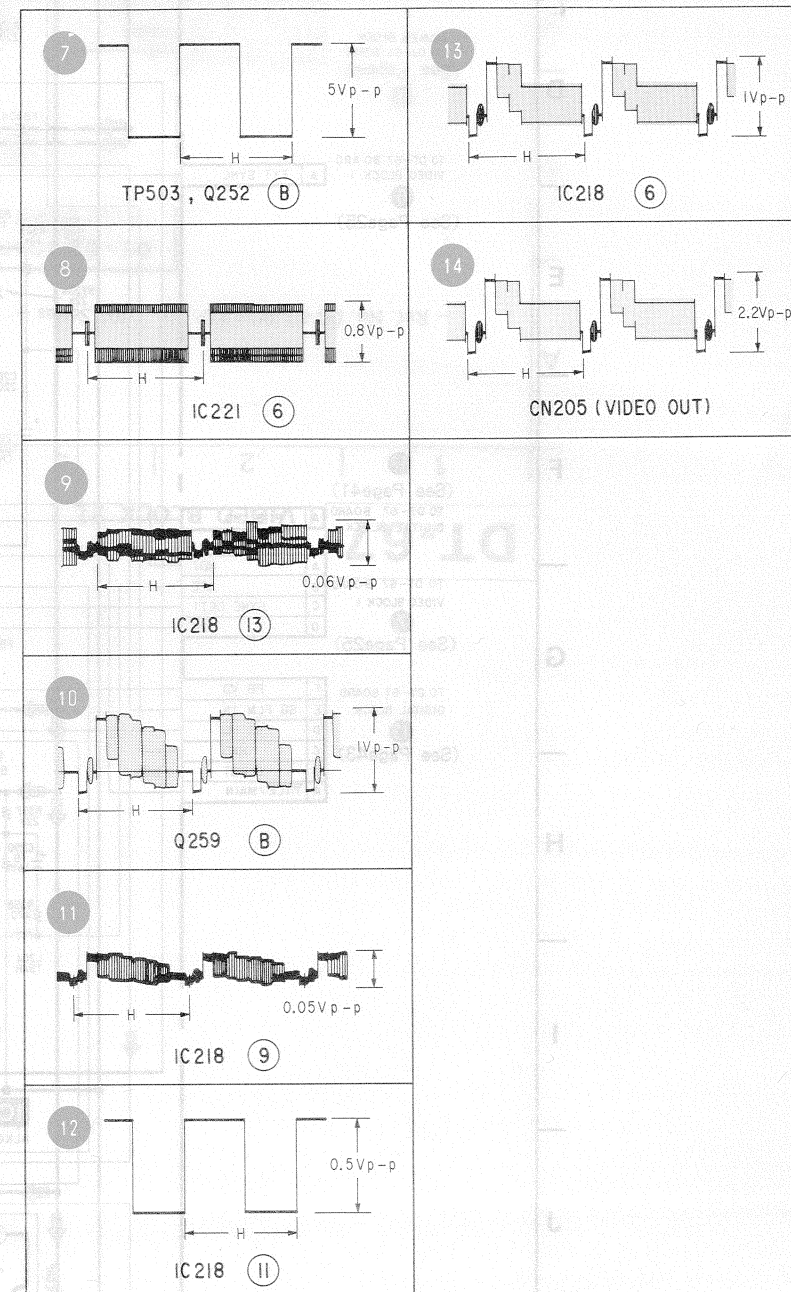
[VIDEO BLOCK 3]

— Ref. No. DT-67 BOARD: No. 1000 Series —

|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| CN002 | D-12 | Q210  | G-10 | TP002 | D-13 |
| CN003 | A-12 | Q211  | F-9  | TP003 | A-12 |
| CN004 | A-12 | Q213  | C-5  | TP004 | A-11 |
| CN005 | A-11 | Q214  | D-5  | TP201 | F-10 |
| CN201 | I-8  | Q215  | C-7  | TP202 | E-8  |
| CN202 | D-4  | Q216  | C-7  | TP203 | C-7  |
| CN203 | A-8  | Q217  | C-7  | TP204 | D-11 |
| CN204 | A-3  | Q218  | E-11 | TP205 | I-10 |
| CN205 | A-5  | Q219  | G-12 | TP206 | F-11 |
| CN501 | G-1  | Q220  | H-11 | TP207 | I-9  |
| CN502 | G-13 | Q221  | H-10 | TP208 | G-9  |
| CN601 | H-13 | Q222  | I-10 | TP209 | C-10 |
| CN602 | I-12 | Q223  | I-10 | TP210 | D-9  |
|       |      | Q224  | I-10 | TP211 | D-9  |
| CV201 | F-5  | Q225  | H-11 | TP212 | F-6  |
| CV202 | F-6  | Q226  | H-10 | TP213 | D-3  |
| CV203 | F-8  | Q227  | H-10 | TP214 | F-7  |
| CV204 | H-5  | Q228  | I-10 | TP215 | D-2  |
|       |      | Q229  | H-9  | TP216 | D-3  |
|       |      | Q230  | I-9  | TP217 | E-2  |
| D001  | C-12 | Q231  | I-9  | TP218 | F-5  |
| D002  | C-12 | Q232  | H-9  | TP219 | F-12 |
| D003  | C-12 | Q233  | H-4  | TP220 | E-11 |
| D004  | B-11 | Q234  | H-4  | TP221 | H-6  |
| D011  | A-12 | Q235  | I-4  | TP222 | H-5  |
| D012  | A-11 | Q236  | H-5  | TP223 | B-3  |
| D013  | B-12 | Q237  | I-4  | TP224 | A-4  |
| D014  | B-11 | Q239  | F-5  | TP225 | A-6  |
| D201  | F-9  | Q240  | G-7  | TP226 | A-6  |
| D202  | F-10 | Q241  | G-7  | TP501 | I-5  |
| D203  | G-10 | Q242  | G-6  | TP502 | I-2  |
| D204  | C-7  | Q243  | F-7  | TP503 | F-3  |
| D205  | C-8  | Q244  | F-6  | TP504 | F-2  |
| D206  | C-7  | Q245  | F-8  | TP505 | G-3  |
| D207  | H-11 | Q246  | E-3  | TP506 | G-3  |
| D208  | H-10 | Q247  | E-3  | TP507 | F-3  |
| D209  | D-11 | Q248  | E-3  | TP508 | G-3  |
| D210  | E-10 | Q250  | D-2  | TP509 | G-3  |
| D212  | H-4  | Q251  | C-7  | TP510 | H-3  |
| D214  | I-4  | Q252  | E-8  |       |      |
| D215  | F-4  | Q253  | E-9  |       |      |
| D216  | D-7  | Q254  | E-8  |       |      |
| D217  | B-7  | Q255  | D-8  |       |      |
| D218  | C-7  | Q256  | C-9  |       |      |
| D219  | I-4  | Q257  | C-8  |       |      |
| D220  | E-6  | Q258  | D-8  |       |      |
| D501  | H-1  | Q259  | C-7  |       |      |
| D601  | C-2  | Q260  | B-8  |       |      |
| D602  | B-2  | Q261  | B-9  |       |      |
| D603  | D-2  | Q262  | B-9  |       |      |
| D605  | A-1  | Q263  | B-10 |       |      |
|       |      | Q264  | E-4  |       |      |
| IC201 | C-3  | Q265  | D-4  |       |      |
| IC202 | F-10 | Q266  | G-7  |       |      |
| IC203 | F-12 | Q267  | G-8  |       |      |
| IC204 | C-4  | Q268  | D-6  |       |      |
| IC205 | E-10 | Q269  | C-9  |       |      |
| IC206 | H-8  | Q270  | C-10 |       |      |
| IC207 | E-11 | Q271  | B-7  |       |      |
| IC209 | I-3  | Q272  | B-7  |       |      |
| IC210 | G-4  | Q273  | B-7  |       |      |
| IC211 | F-4  | Q274  | B-6  |       |      |
| IC212 | G-5  | Q275  | C-6  |       |      |
| IC213 | H-4  | Q276  | C-5  |       |      |
| IC214 | G-6  | Q277  | C-5  |       |      |
| IC215 | D-4  | Q279  | F-12 |       |      |
| IC216 | E-4  | Q280  | I-9  |       |      |
| IC217 | E-2  | Q281  | I-8  |       |      |
| IC218 | B-8  | Q282  | C-5  |       |      |
| IC219 | E-7  | Q501  | H-1  |       |      |
| IC220 | E-6  | Q601  | C-2  |       |      |
| IC221 | D-10 | Q602  | B-2  |       |      |
| IC222 | E-12 | Q603  | C-3  |       |      |
| IC223 | F-11 | Q604  | C-2  |       |      |
| IC224 | I-2  | Q605  | H-13 |       |      |
| IC225 | E-12 | Q801  | B-5  |       |      |
| IC501 | G-2  | Q802  | B-5  |       |      |
| IC502 | F-3  | Q803  | B-4  |       |      |
| IC503 | G-3  |       |      |       |      |
| IC504 | H-3  | RV011 | B-11 |       |      |
| IC505 | H-2  | RV012 | B-12 |       |      |
| IC601 | B-1  | RV201 | C-3  |       |      |
| IC602 | C-2  | RV202 | I-2  |       |      |
| IC603 | I-12 | RV203 | I-4  |       |      |
|       |      | RV204 | G-4  |       |      |
|       |      | RV205 | F-7  |       |      |
| Q201  | B-3  | RV206 | E-9  |       |      |
| Q202  | B-4  | RV207 | D-9  |       |      |
| Q203  | C-4  | RV208 | E-6  |       |      |
| Q204  | C-4  | RV209 | C-10 |       |      |
| Q205  | B-4  | RV210 | E-5  |       |      |
| Q206  | F-8  | RV211 | E-5  |       |      |
| Q207  | G-9  | RV212 | D-12 |       |      |
| Q208  | F-9  | RV213 | B-8  |       |      |
| Q209  | G-9  |       |      |       |      |





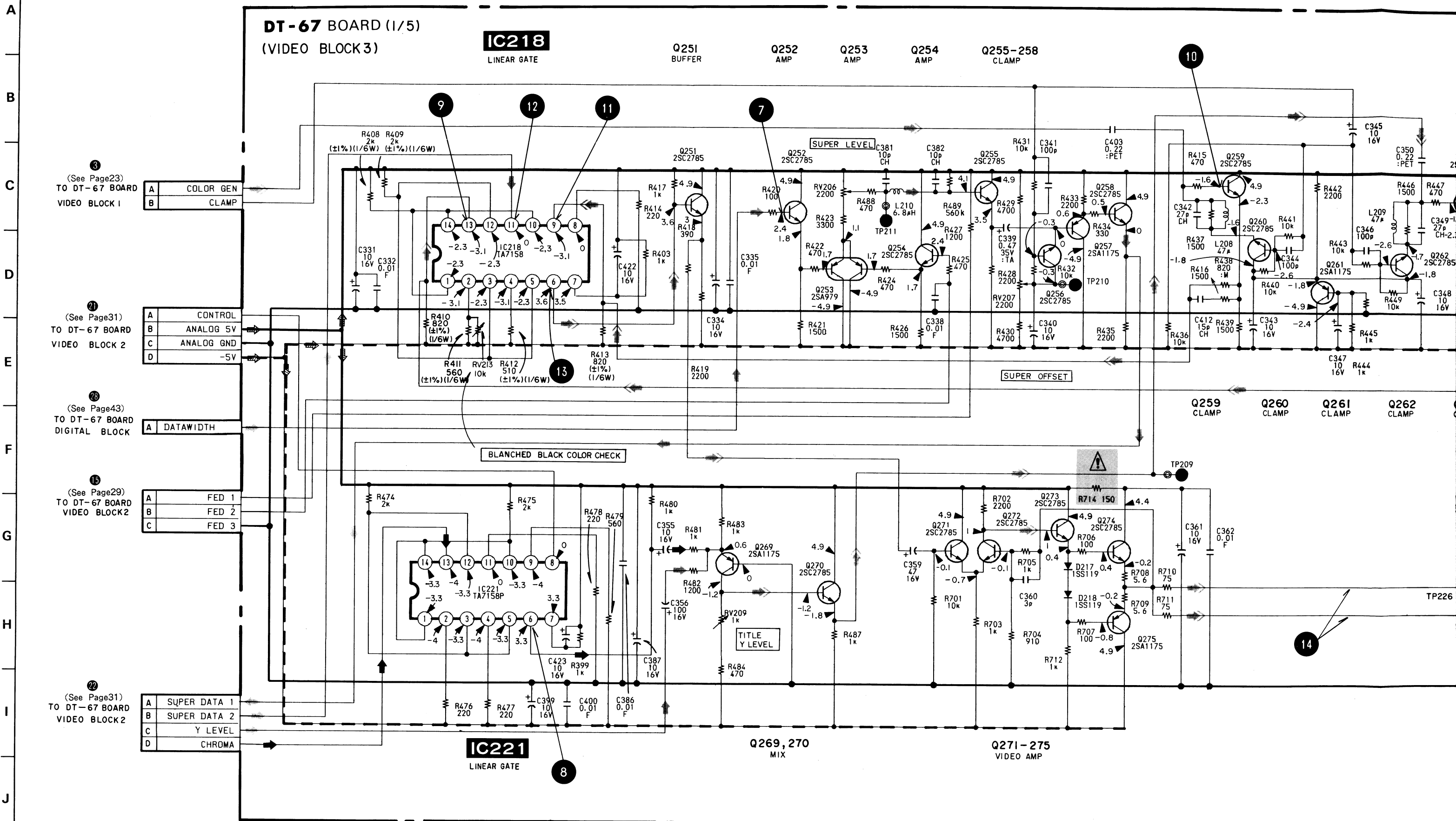


**Note:**

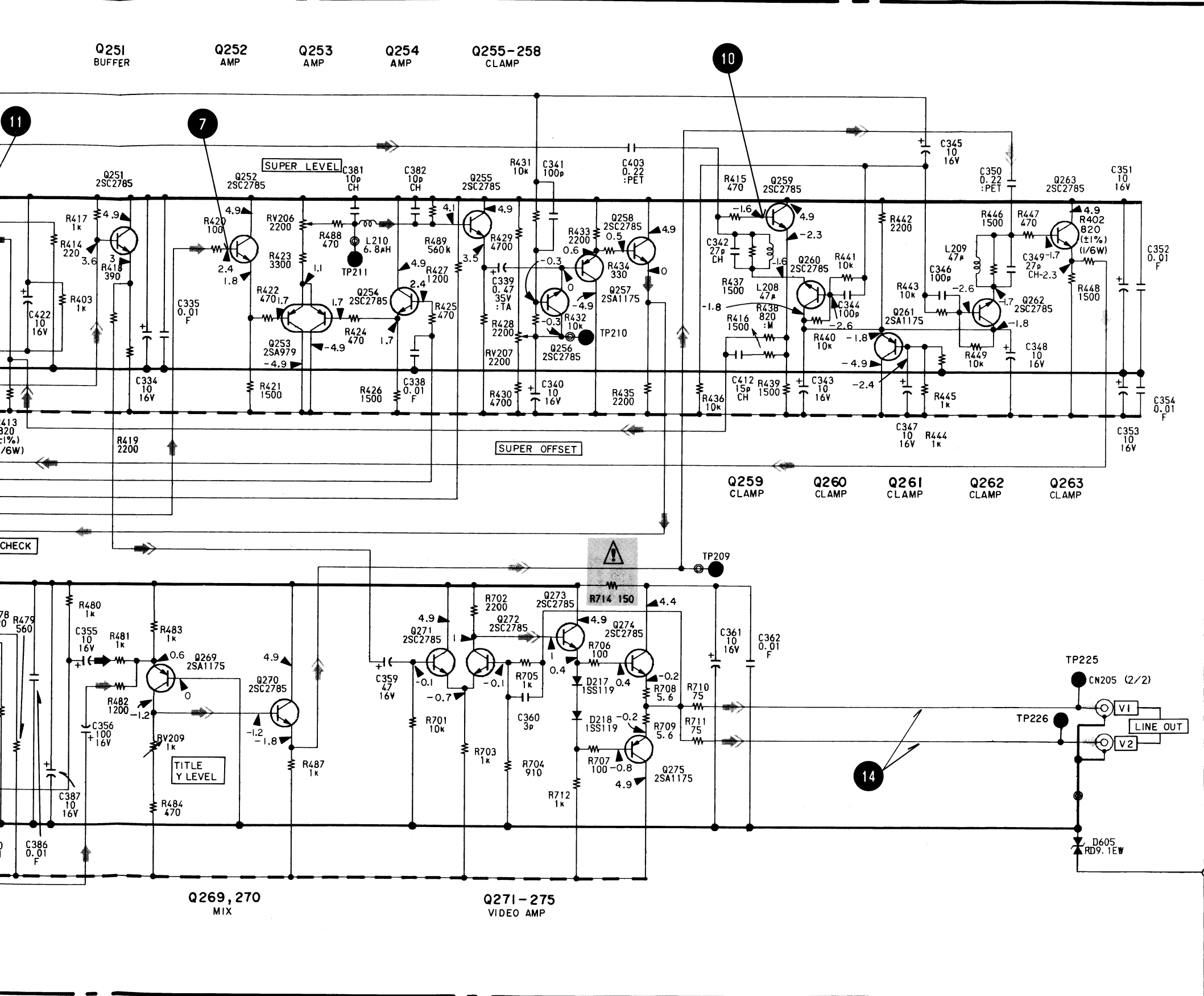
- ○ : indicates a lead wire mounted on the component side.
- ● : indicates a lead wire mounted on the printed side.
- ⊗ : Through hole.
- ■ : soldering side.
- ■ : component side.
- Digital transistors (DT-67: Q237, Q241, Q242, Q279, Q501) have the built-in resistor.

When indicating parts by reference number, please include the board name.

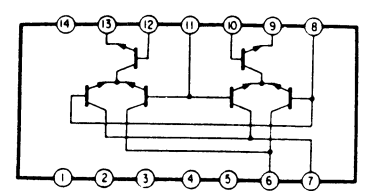








TA7158P



Note:

- All resistors are in ohms, 1/4W unless otherwise noted. kΩ: 1000Ω, MΩ: 1000kΩ.
- All capacitors are in μF unless otherwise noted. pF: μμF. 50V or less are not indicated except for electrolytics and tantalums.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- : internal component.
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Measuring conditions of voltage value and waveform

INPUT { 1: COLOR BAR  
2: COLOR BAR

INPUT { MAIN: 1  
SELECT { TITLE: 2

OUTPUT { SUPER IMPOSE: ON  
SELECT { KEY LEVEL:  
THE POINT WHERE THE GREEN OF COLOR BAR IS HIDDEN WITH THE TITLE COLOR (RED)  
COLOR SELECT: RED

TITLE EFFECT: NORMAL  
SUPER IMPOSE LEVEL: MAX  
REVERSE: OFF

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Readings are taken with a digital multimeter (DC10MΩ).
- Voltage variations may be noted due to normal production tolerances.

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

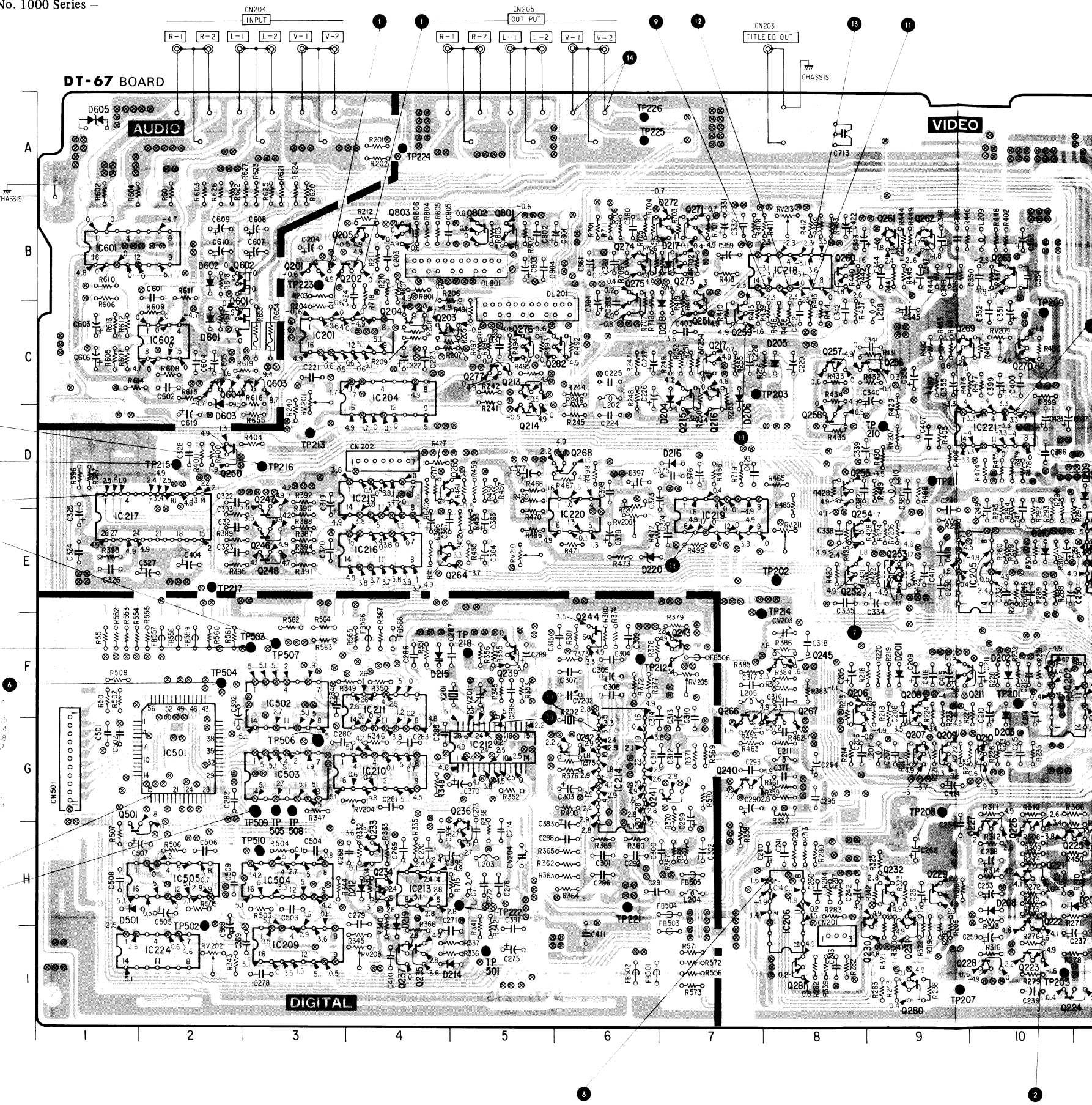
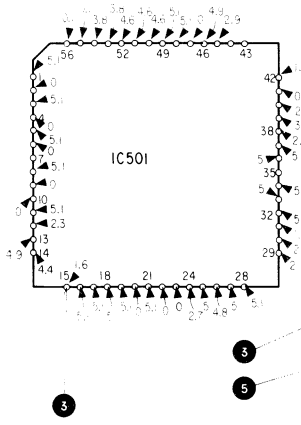
Signal path

- : Y Signal
- : Y/CHROMA Signal
- : CHROMA Signal
- : IN/OUT direction of B+, B-.

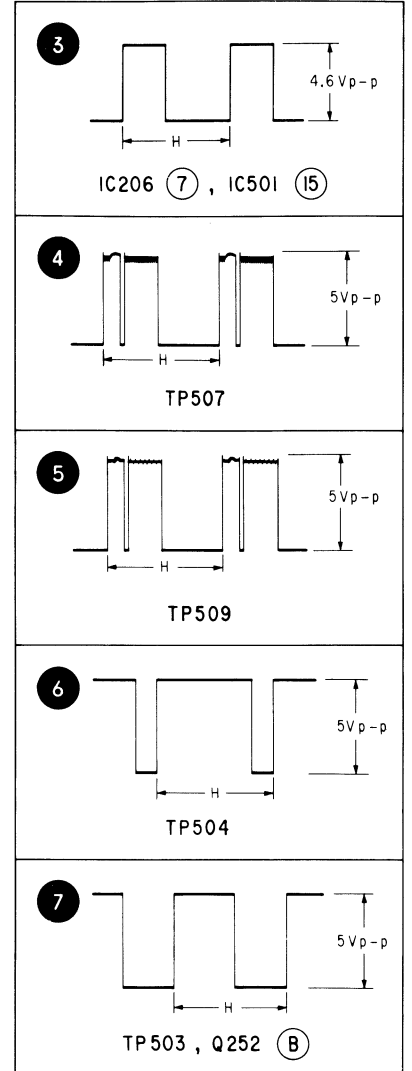
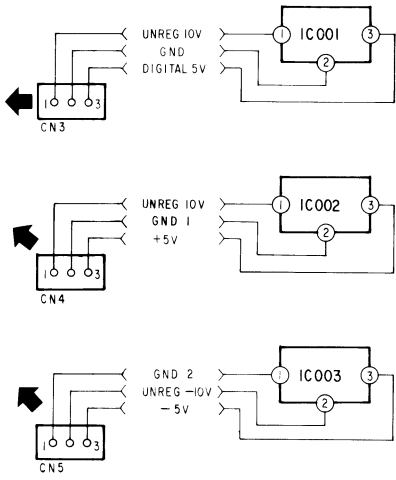
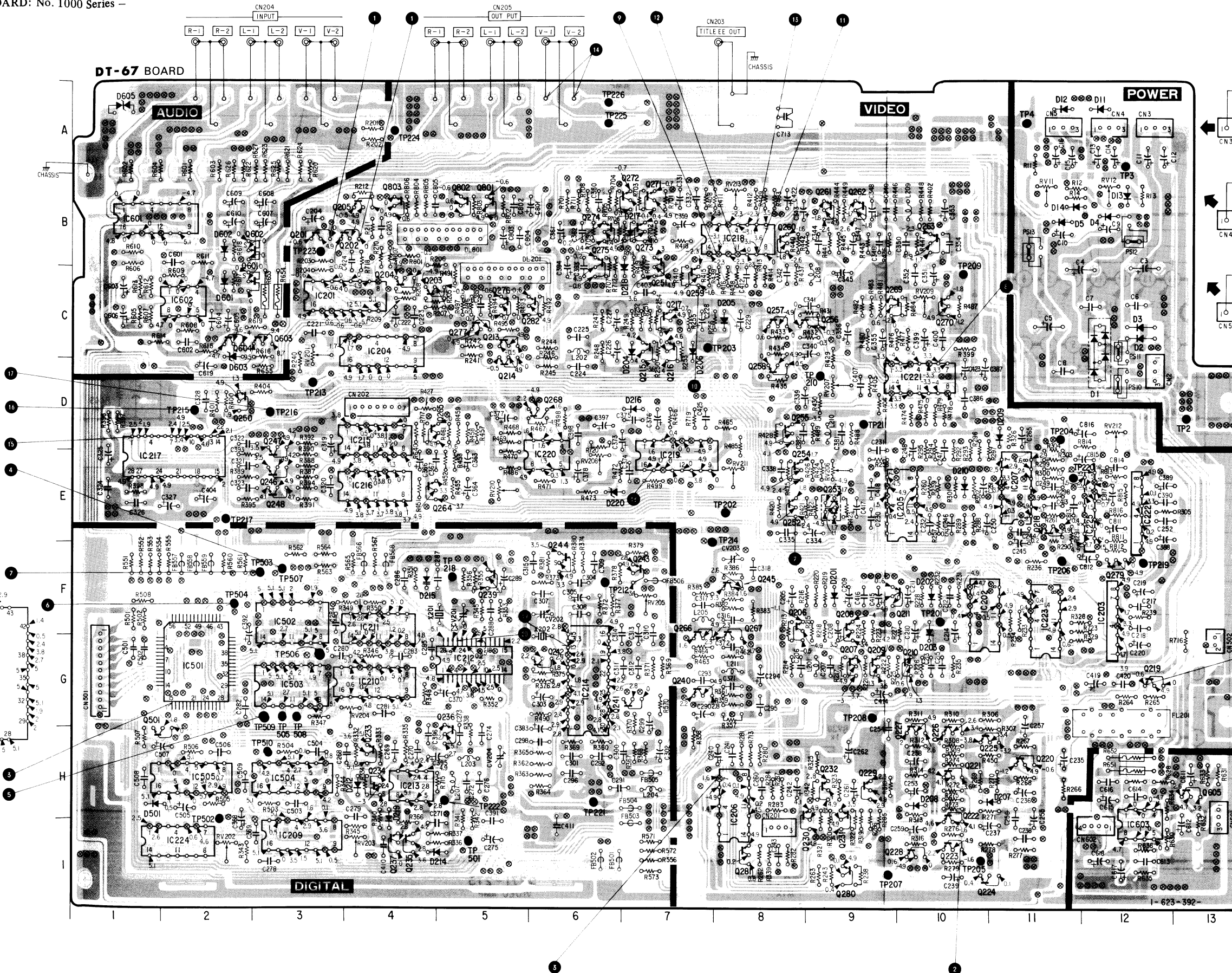
DT-67 [DIGITAL BLOCK]

- Ref. No. DT-67 BOARD: No. 1000 Series -

|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| CN002 | D-12 | Q210  | G-10 | TP002 | D-13 |
| CN003 | A-12 | Q211  | F-9  | TP003 | A-12 |
| CN004 | A-12 | Q213  | C-5  | TP004 | A-11 |
| CN005 | A-11 | Q214  | D-5  | TP201 | F-10 |
| CN201 | I-8  | Q215  | C-7  | TP202 | E-8  |
| CN202 | D-4  | Q216  | C-7  | TP203 | C-7  |
| CN203 | A-8  | Q217  | C-7  | TP204 | D-11 |
| CN204 | A-3  | Q218  | E-11 | TP205 | I-10 |
| CN205 | A-5  | Q219  | G-12 | TP206 | F-11 |
| CN501 | G-1  | Q220  | H-11 | TP207 | I-9  |
| CN502 | G-13 | Q221  | H-10 | TP208 | G-9  |
| CN601 | H-13 | Q222  | I-10 | TP209 | C-10 |
| CN602 | I-12 | Q223  | I-10 | TP210 | D-9  |
|       |      | Q224  | I-10 | TP211 | D-9  |
| CV201 | F-5  | Q225  | H-11 | TP212 | F-6  |
| CV202 | F-6  | Q226  | H-10 | TP213 | D-3  |
| CV203 | F-8  | Q227  | H-10 | TP214 | F-7  |
| CV204 | H-5  | Q228  | I-10 | TP215 | D-2  |
|       |      | Q229  | H-9  | TP216 | D-3  |
| D001  | C-12 | Q230  | I-9  | TP217 | E-2  |
| D002  | C-12 | Q231  | I-9  | TP218 | F-5  |
| D003  | C-12 | Q232  | H-9  | TP219 | F-12 |
| D004  | B-12 | Q233  | H-4  | TP220 | E-11 |
| D005  | B-11 | Q234  | H-4  | TP221 | H-6  |
| D011  | A-12 | Q235  | I-4  | TP222 | H-5  |
| D012  | A-11 | Q236  | H-5  | TP223 | B-3  |
| D013  | B-12 | Q237  | I-4  | TP224 | A-4  |
| D014  | B-11 | Q239  | F-5  | TP225 | A-6  |
| D201  | F-9  | Q240  | G-7  | TP226 | A-6  |
| D202  | F-10 | Q241  | G-7  | TP501 | I-5  |
| D203  | G-10 | Q242  | G-6  | TP502 | I-2  |
| D204  | C-7  | Q243  | F-7  | TP503 | F-3  |
| D205  | C-8  | Q244  | F-6  | TP504 | F-2  |
| D206  | C-7  | Q245  | F-8  | TP505 | G-3  |
| D207  | H-11 | Q246  | E-3  | TP506 | G-3  |
| D208  | H-10 | Q247  | E-3  | TP507 | F-3  |
| D209  | D-11 | Q248  | E-3  | TP508 | G-3  |
| D210  | E-10 | Q250  | D-2  | TP509 | G-3  |
| D212  | H-4  | Q251  | C-7  | TP510 | H-3  |
| D214  | I-4  | Q252  | E-8  |       |      |
| D215  | F-4  | Q253  | E-9  |       |      |
| D216  | D-7  | Q254  | E-8  |       |      |
| D217  | B-7  | Q255  | D-8  |       |      |
| D218  | C-7  | Q256  | C-9  |       |      |
| D219  | I-4  | Q257  | C-8  |       |      |
| D220  | E-6  | Q258  | D-8  |       |      |
| D501  | H-1  | Q259  | C-7  |       |      |
| D601  | C-2  | Q260  | B-8  |       |      |
| D602  | B-2  | Q261  | B-9  |       |      |
| D603  | D-2  | Q262  | B-9  |       |      |
| D605  | A-1  | Q263  | B-10 |       |      |
|       |      | Q264  | E-4  |       |      |
| IC201 | C-3  | Q265  | D-4  |       |      |
| IC202 | F-10 | Q266  | G-7  |       |      |
| IC203 | F-12 | Q267  | G-8  |       |      |
| IC204 | C-4  | Q268  | D-6  |       |      |
| IC205 | E-10 | Q269  | C-9  |       |      |
| IC206 | H-8  | Q270  | C-10 |       |      |
| IC207 | E-11 | Q271  | B-7  |       |      |
| IC209 | I-3  | Q272  | B-7  |       |      |
| IC210 | G-4  | Q273  | B-7  |       |      |
| IC211 | F-4  | Q274  | B-6  |       |      |
| IC212 | G-5  | Q275  | C-6  |       |      |
| IC213 | H-4  | Q276  | C-5  |       |      |
| IC214 | G-6  | Q277  | C-5  |       |      |
| IC215 | D-4  | Q279  | F-12 |       |      |
| IC216 | E-4  | Q280  | I-9  |       |      |
| IC217 | E-2  | Q281  | I-8  |       |      |
| IC218 | B-8  | Q282  | C-5  |       |      |
| IC219 | E-7  | Q501  | H-1  |       |      |
| IC220 | E-6  | Q601  | C-2  |       |      |
| IC221 | D-10 | Q602  | B-2  |       |      |
| IC222 | E-12 | Q603  | C-3  |       |      |
| IC223 | F-11 | Q604  | C-2  |       |      |
| IC224 | I-2  | Q605  | H-13 |       |      |
| IC225 | E-12 | Q801  | B-5  |       |      |
| IC501 | G-2  | Q802  | B-5  |       |      |
| IC502 | F-3  | Q803  | B-4  |       |      |
| IC503 | G-3  |       |      |       |      |
| IC504 | H-3  | RV011 | B-11 |       |      |
| IC505 | H-2  | RV012 | B-12 |       |      |
| IC601 | B-1  | RV201 | C-3  |       |      |
| IC602 | C-2  | RV202 | I-2  |       |      |
| IC603 | I-12 | RV203 | I-4  |       |      |
|       |      | RV204 | G-4  |       |      |
| Q201  | B-3  | RV205 | F-7  |       |      |
| Q202  | B-4  | RV206 | E-9  |       |      |
| Q203  | C-4  | RV207 | D-9  |       |      |
| Q204  | C-4  | RV208 | E-6  |       |      |
| Q205  | B-4  | RV209 | C-10 |       |      |
| Q206  | F-8  | RV210 | E-5  |       |      |
| Q207  | G-9  | RV211 | E-8  |       |      |
| Q208  | F-9  | RV212 | D-12 |       |      |
| Q209  | G-9  | RV213 | B-8  |       |      |







Note:

- : indicates a lead wire mounted on the component side.
- : indicates a lead wire mounted on the printed side.
- ⊗ : Through hole.
- ⊙ : soldering side.

• Digital transistors (DT-67: Q237, Q241, Q242, Q279, Q501) have the built-in resistor.

When indicating parts by reference number, please include the board name.

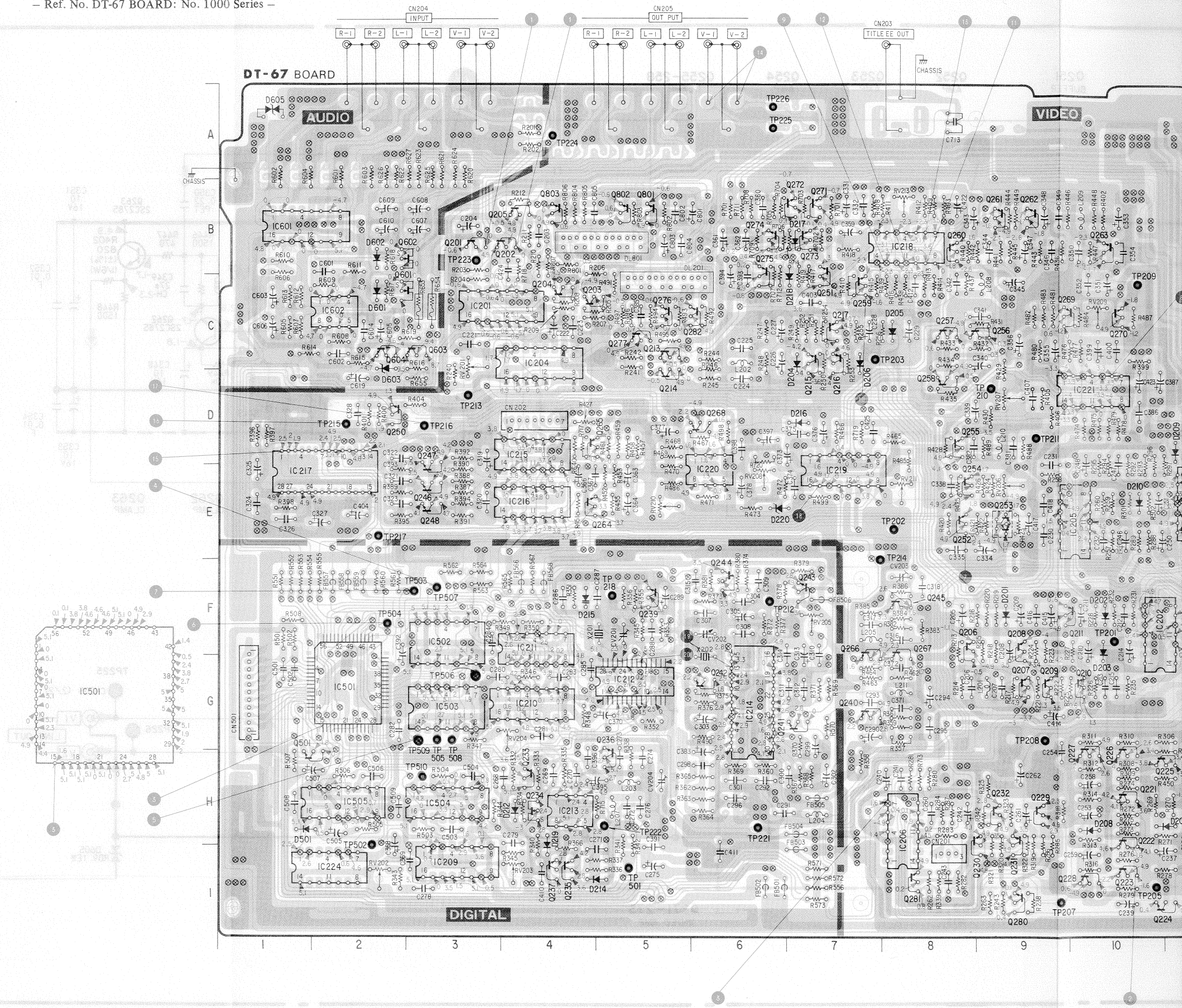
MIC AMP



DT-67 [DIGITAL BLOCK]

- Ref. No. DT-67 BOARD: No. 1000 Series -

|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| CN002 | D-12 | Q210  | G-10 | TP002 | D-13 |
| CN003 | A-12 | Q211  | F-9  | TP003 | A-12 |
| CN004 | A-12 | Q213  | C-5  | TP004 | A-11 |
| CN005 | A-11 | Q214  | D-5  | TP201 | F-10 |
| CN201 | I-8  | Q215  | C-7  | TP202 | E-8  |
| CN202 | D-4  | Q216  | C-7  | TP203 | C-7  |
| CN203 | A-8  | Q217  | C-7  | TP204 | D-11 |
| CN204 | A-3  | Q218  | E-11 | TP205 | I-10 |
| CN205 | A-5  | Q219  | G-12 | TP206 | F-11 |
| CN501 | G-1  | Q220  | H-11 | TP207 | I-9  |
| CN502 | G-13 | Q221  | H-10 | TP208 | G-9  |
| CN601 | H-13 | Q222  | I-10 | TP209 | C-10 |
| CN602 | I-12 | Q223  | I-10 | TP210 | D-9  |
|       |      | Q224  | I-10 | TP211 | D-9  |
|       |      | Q225  | H-11 | TP212 | F-6  |
| CV201 | F-5  | Q226  | H-10 | TP213 | D-3  |
| CV202 | F-6  | Q227  | H-10 | TP214 | F-7  |
| CV203 | F-8  | Q228  | I-10 | TP215 | D-2  |
| CV204 | H-5  | Q229  | H-9  | TP216 | D-3  |
|       |      | Q230  | I-9  | TP217 | E-2  |
| D001  | C-12 | Q231  | I-9  | TP218 | F-5  |
| D002  | C-12 | Q232  | H-9  | TP219 | F-12 |
| D003  | C-12 | Q233  | H-4  | TP220 | E-11 |
| D004  | B-11 | Q234  | H-4  | TP221 | H-6  |
| D011  | A-12 | Q235  | I-4  | TP222 | H-5  |
| D012  | A-11 | Q236  | H-5  | TP223 | B-3  |
| D013  | B-12 | Q237  | I-4  | TP224 | A-4  |
| D014  | B-11 | Q239  | F-5  | TP225 | A-6  |
| D201  | F-9  | Q240  | G-7  | TP226 | A-6  |
| D202  | F-10 | Q241  | G-7  | TP501 | I-5  |
| D203  | G-10 | Q242  | G-6  | TP502 | I-2  |
| D204  | C-7  | Q243  | F-7  | TP503 | F-3  |
| D205  | C-8  | Q244  | F-6  | TP504 | F-2  |
| D206  | C-7  | Q245  | F-8  | TP505 | G-3  |
| D207  | H-11 | Q246  | E-3  | TP506 | G-3  |
| D208  | H-10 | Q247  | E-3  | TP507 | F-3  |
| D209  | D-11 | Q248  | E-3  | TP508 | G-3  |
| D210  | E-10 | Q250  | D-2  | TP509 | G-3  |
| D212  | H-4  | Q251  | C-7  | TP510 | H-3  |
| D214  | I-4  | Q252  | E-8  |       |      |
| D215  | F-4  | Q253  | E-9  |       |      |
| D216  | D-7  | Q254  | E-8  |       |      |
| D217  | B-7  | Q255  | D-8  |       |      |
| D218  | C-7  | Q256  | C-9  |       |      |
| D219  | I-4  | Q257  | C-8  |       |      |
| D220  | E-6  | Q258  | D-8  |       |      |
| D501  | H-1  | Q259  | C-7  |       |      |
| D601  | C-2  | Q260  | B-8  |       |      |
| D602  | B-2  | Q261  | B-9  |       |      |
| D603  | D-2  | Q262  | B-9  |       |      |
| D605  | A-1  | Q263  | B-10 |       |      |
|       |      | Q264  | E-4  |       |      |
|       |      | Q265  | D-4  |       |      |
| IC201 | C-3  | Q266  | G-7  |       |      |
| IC202 | F-10 | Q267  | G-8  |       |      |
| IC203 | F-12 | Q268  | D-6  |       |      |
| IC204 | C-4  | Q269  | C-9  |       |      |
| IC205 | E-10 | Q270  | C-10 |       |      |
| IC206 | H-8  | Q271  | B-7  |       |      |
| IC207 | E-11 | Q272  | B-7  |       |      |
| IC209 | I-3  | Q273  | B-7  |       |      |
| IC210 | G-4  | Q274  | B-6  |       |      |
| IC211 | F-4  | Q275  | C-6  |       |      |
| IC212 | G-5  | Q276  | C-5  |       |      |
| IC213 | H-4  | Q277  | C-5  |       |      |
| IC214 | G-6  | Q279  | F-12 |       |      |
| IC215 | D-4  | Q280  | I-9  |       |      |
| IC216 | E-4  | Q281  | I-8  |       |      |
| IC217 | E-2  | Q282  | C-5  |       |      |
| IC218 | B-8  | Q501  | H-1  |       |      |
| IC219 | E-7  | Q601  | C-2  |       |      |
| IC220 | E-6  | Q602  | B-2  |       |      |
| IC221 | D-10 | Q603  | C-3  |       |      |
| IC222 | E-12 | Q604  | C-2  |       |      |
| IC223 | F-11 | Q605  | H-13 |       |      |
| IC224 | I-2  | Q801  | B-5  |       |      |
| IC225 | E-12 | Q802  | B-5  |       |      |
| IC501 | G-2  | Q803  | B-4  |       |      |
| IC502 | F-3  | RV011 | B-11 |       |      |
| IC503 | G-3  | RV012 | B-12 |       |      |
| IC504 | H-3  | RV201 | C-3  |       |      |
| IC505 | H-2  | RV202 | I-2  |       |      |
| IC601 | B-1  | RV203 | I-4  |       |      |
| IC602 | C-2  | RV204 | G-4  |       |      |
| IC603 | I-12 | RV205 | F-7  |       |      |
|       |      | RV206 | E-9  |       |      |
| Q201  | B-3  | RV207 | D-9  |       |      |
| Q202  | B-4  | RV208 | E-6  |       |      |
| Q203  | C-4  | RV209 | C-10 |       |      |
| Q204  | C-4  | RV210 | E-5  |       |      |
| Q205  | B-4  | RV211 | E-8  |       |      |
| Q206  | F-8  | RV212 | D-12 |       |      |
| Q207  | G-9  | RV213 | B-8  |       |      |
| Q208  | F-9  |       |      |       |      |
| Q209  | G-9  |       |      |       |      |







3

4.6 V<sub>p-p</sub>

H

IC206 (7), IC501 (15)

4

5 V<sub>p-p</sub>

H

TP507

5

5 V<sub>p-p</sub>

H

TP509

6

5 V<sub>p-p</sub>

H

TP504

7

5 V<sub>p-p</sub>

H

TP503, Q252 (B)

Note:

- —○ : indicates a lead wire mounted on the component side.
- —● : indicates a lead wire mounted on the printed side.
- ⊗ : Through hole.
- : soldering side.
- : component side.

- Digital transistors (DT-67: Q237, Q241, Q242, Q279, Q501) have the built-in resistor.

When indicating parts by reference number, please include the board name.



# DT-67

[DIGITAL BLOCK]

- Ref. No. DT-67 BOARD: No. 1000 Series -

## DT-67 BOARD (1/5) (DIGITAL BLOCK)

(See Page54)  
TO FT-25 BOARD  
CN103

(See Page31)  
TO DT-67 BOARD  
VIDEO BLOCK 2

(See Page31)  
TO DT-67 BOARD  
VIDEO BLOCK 2

(See Page31)  
TO DT-67 BOARD  
VIDEO BLOCK 2

TO DT-67 BOARD  
VIDEO BLOCK 1  
(See Page25)

TO DT-67 BOARD  
VIDEO BLOCK 2  
(See Page29)

| CNS01 11P | WHT        |
|-----------|------------|
| GRY       | MLED       |
| GRY       | MAIN I/2   |
| GRY       | MEMORY     |
| GRY       | TITLE I/2  |
| GRY       | REVERSE    |
| GRY       | EDGE       |
| GRY       | TITLE (EE) |
| GRY       | SHADOW     |
| GRY       | T MAIN     |
| GRY       | T SUPER    |
| GRY       | GND        |

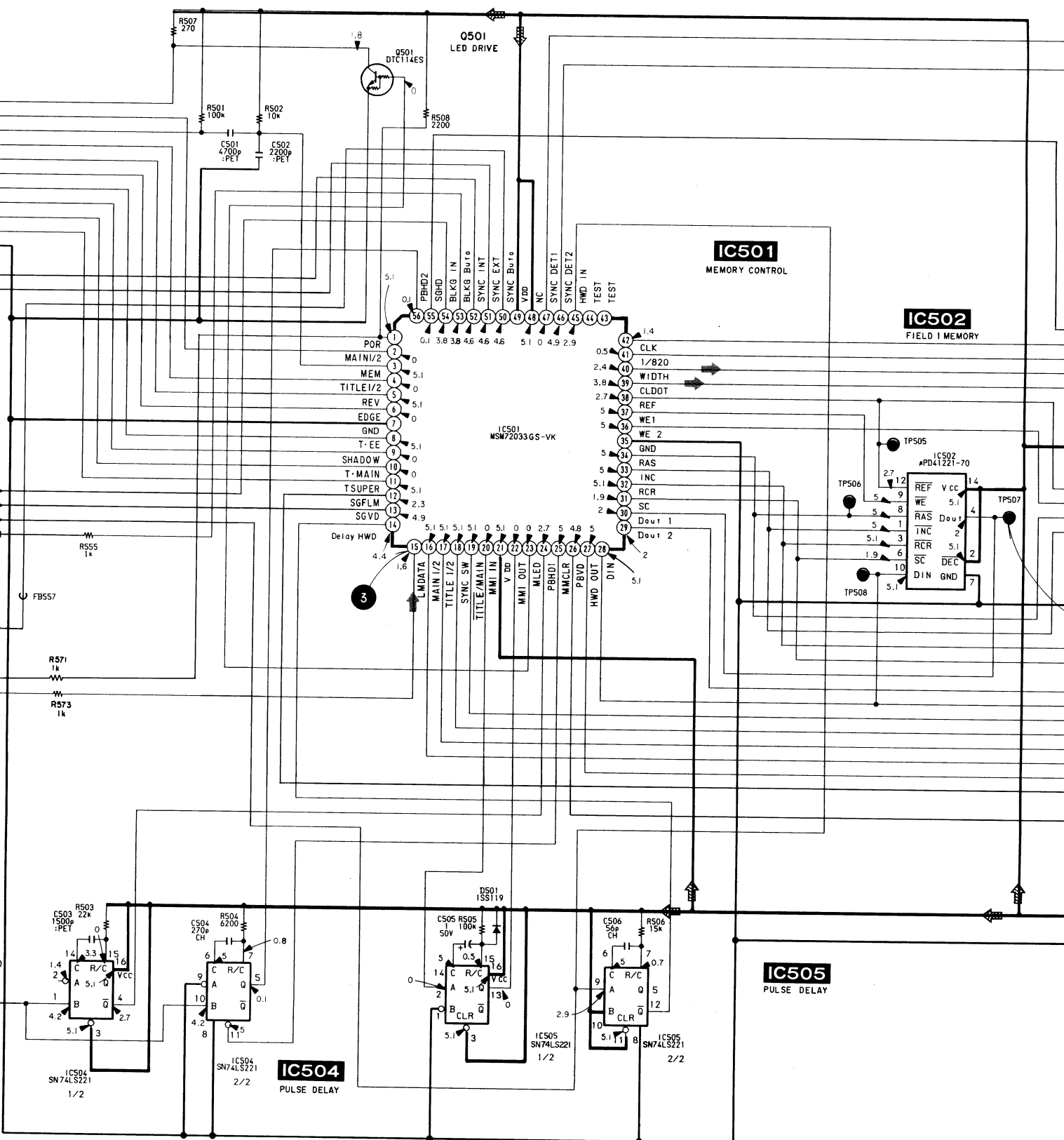
|   |             |
|---|-------------|
| A | INT SYNC IN |
| B | EXTSYNC IN  |

|   |          |
|---|----------|
| A | BLKG IN  |
| B | SG VD    |
| C | HWD      |
| D | BLKG OUT |

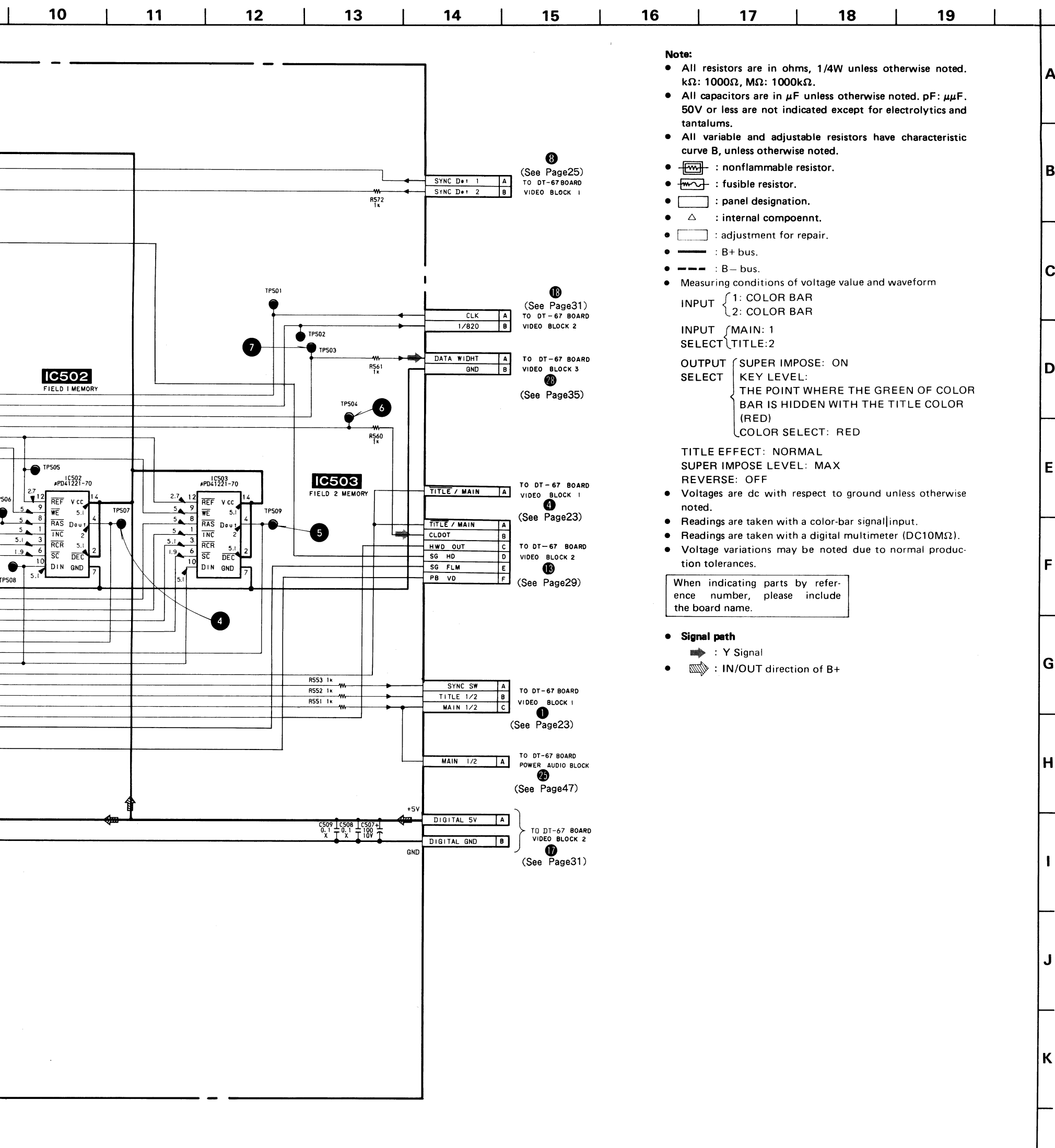
|   |          |
|---|----------|
| A | SYNC OUT |
|---|----------|

|   |         |
|---|---------|
| A | P. OR   |
| B | DATA IN |

|   |      |
|---|------|
| A | PBHD |
|---|------|







DT-67

[POWER, AUDIO BLOCK]

AC-27

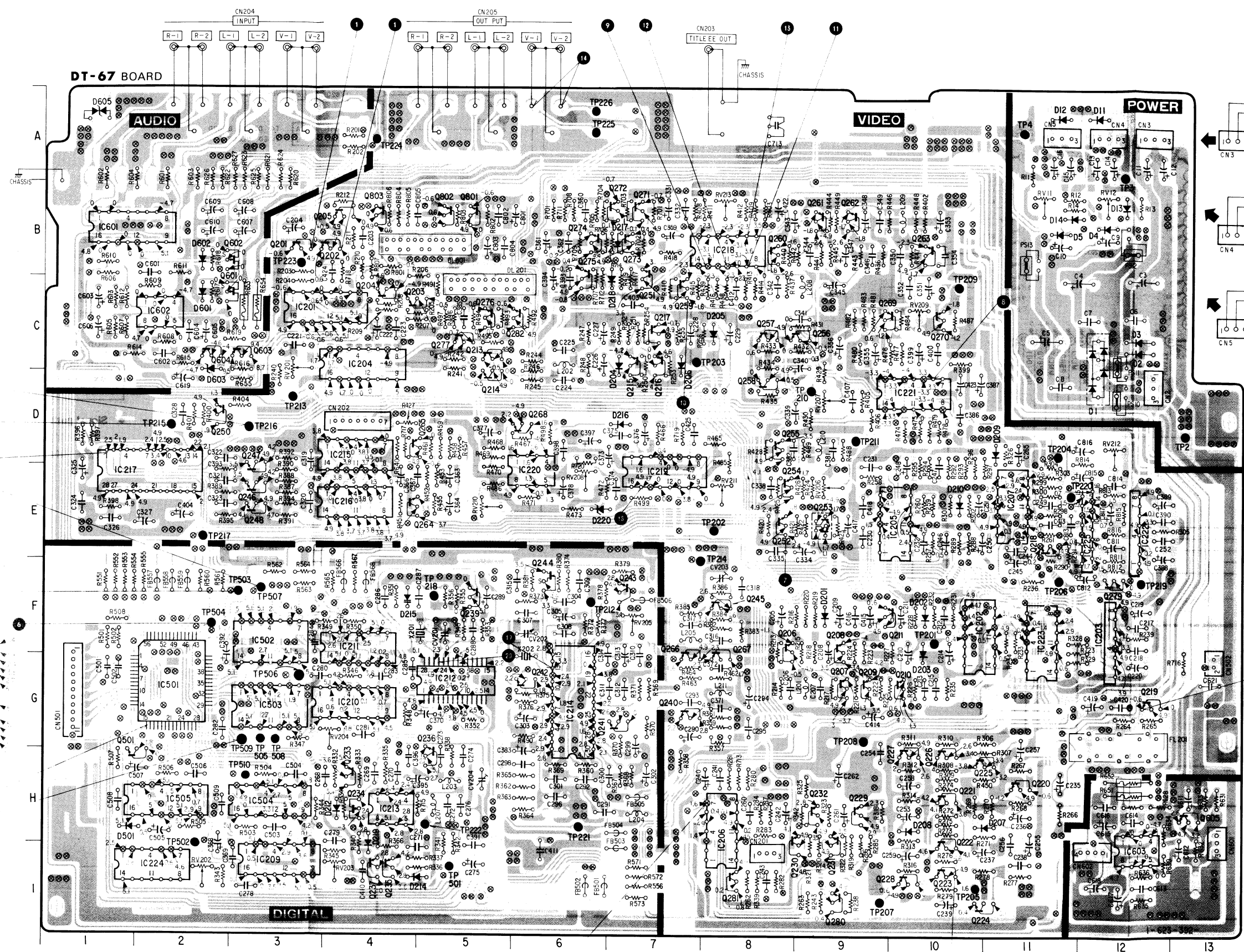
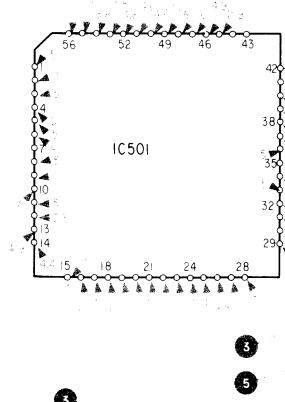
[AC INPUT]

AC-28

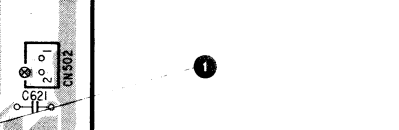
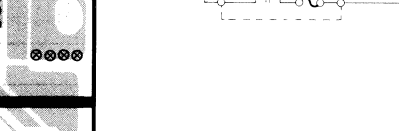
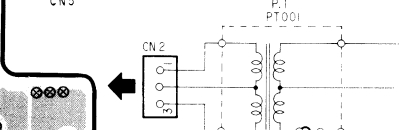
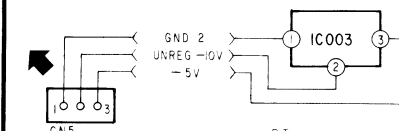
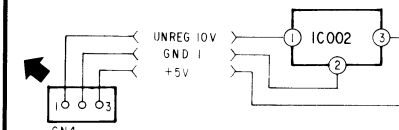
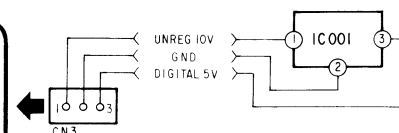
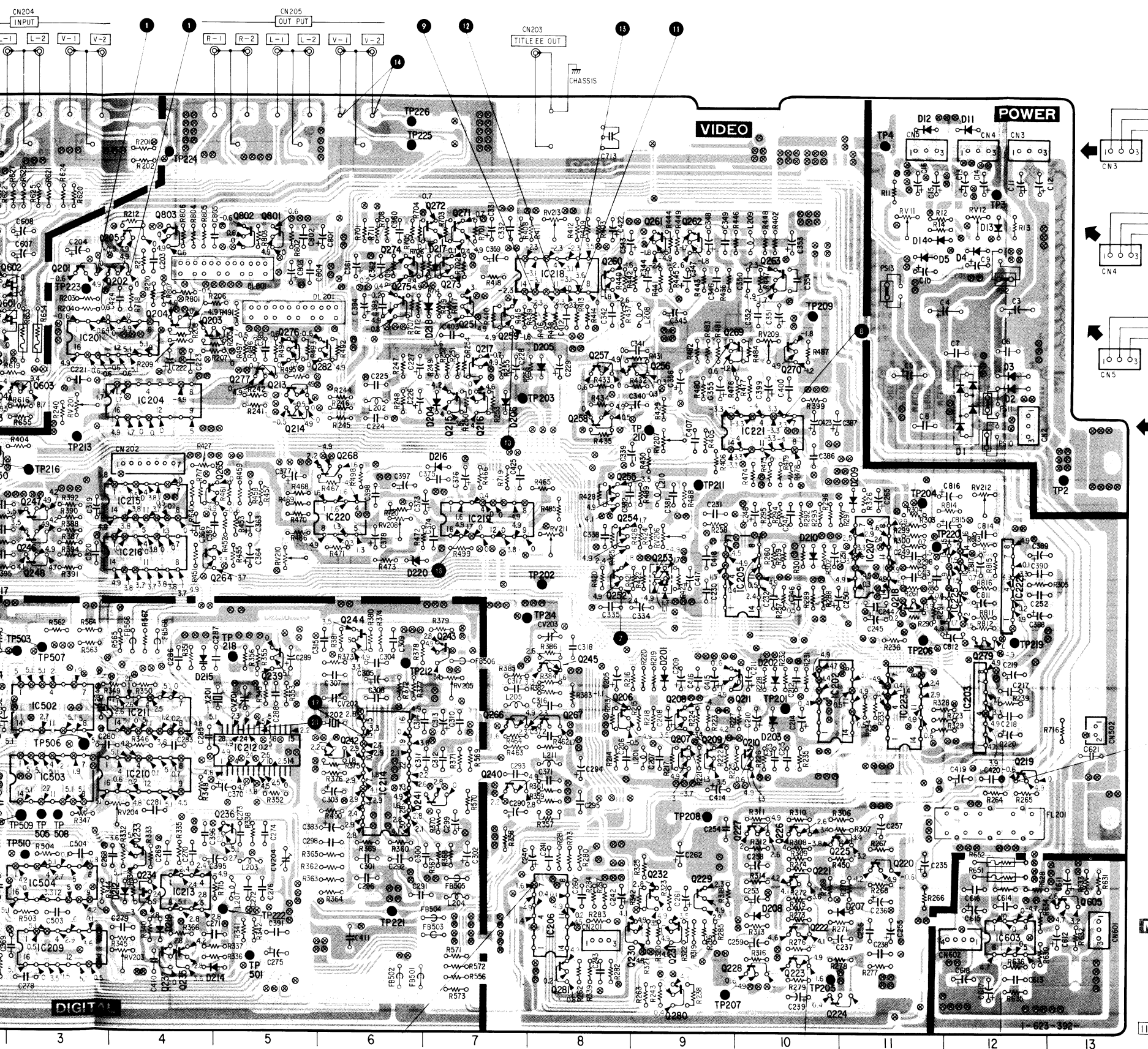
[POWER SWITCH]

— Ref. No. DT-67 BOARD: No. 1000 Series, AC-27 BOARD, AC-28 BOARD: No. 2000 Series —

|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| CN002 | D-12 | Q210  | G-10 | TP002 | D-13 |
| CN003 | A-12 | Q211  | F-9  | TP003 | A-12 |
| CN004 | A-12 | Q213  | C-5  | TP004 | A-11 |
| CN005 | A-11 | Q214  | D-5  | TP201 | F-10 |
| CN201 | I-8  | Q215  | C-7  | TP202 | E-8  |
| CN202 | D-4  | Q216  | C-7  | TP203 | C-7  |
| CN203 | A-8  | Q217  | C-7  | TP204 | D-11 |
| CN204 | A-3  | Q218  | E-11 | TP205 | I-10 |
| CN205 | A-5  | Q219  | G-12 | TP206 | F-11 |
| CN501 | G-1  | Q220  | H-11 | TP207 | I-9  |
| CN502 | G-13 | Q221  | H-10 | TP208 | G-9  |
| CN601 | H-13 | Q222  | I-10 | TP209 | C-10 |
| CN602 | I-12 | Q223  | I-10 | TP210 | D-9  |
|       |      | Q224  | I-10 | TP211 | D-9  |
|       |      | Q225  | H-11 | TP212 | F-6  |
| CV201 | F-5  | Q226  | H-10 | TP213 | D-3  |
| CV202 | F-6  | Q227  | H-10 | TP214 | F-7  |
| CV203 | F-8  | Q228  | I-10 | TP215 | D-2  |
| CV204 | H-5  | Q229  | H-9  | TP216 | D-3  |
|       |      | Q230  | I-9  | TP217 | E-2  |
|       |      | Q231  | I-9  | TP218 | F-5  |
| D001  | C-12 | Q232  | H-9  | TP219 | F-12 |
| D002  | C-12 | Q233  | H-4  | TP220 | E-11 |
| D003  | C-12 | Q234  | H-4  | TP221 | H-6  |
| D004  | B-12 | Q235  | I-4  | TP222 | H-5  |
| D005  | B-11 | Q236  | H-5  | TP223 | B-3  |
| D011  | A-12 | Q237  | I-4  | TP224 | A-4  |
| D012  | A-11 | Q239  | F-5  | TP225 | A-6  |
| D013  | B-12 | Q240  | G-7  | TP226 | A-6  |
| D014  | B-11 | Q241  | G-7  | TP501 | I-5  |
| D201  | F-9  | Q242  | G-6  | TP502 | I-2  |
| D202  | F-10 | Q243  | F-7  | TP503 | F-3  |
| D203  | G-10 | Q244  | F-6  | TP504 | F-2  |
| D204  | C-7  | Q245  | F-8  | TP505 | G-3  |
| D205  | C-8  | Q246  | E-3  | TP506 | G-3  |
| D206  | C-7  | Q247  | E-3  | TP507 | F-3  |
| D207  | H-11 | Q248  | E-3  | TP508 | G-3  |
| D208  | H-10 | Q250  | D-2  | TP509 | G-3  |
| D209  | D-11 | Q251  | C-7  | TP510 | H-3  |
| D210  | E-10 | Q252  | E-8  |       |      |
| D212  | H-4  | Q253  | E-9  |       |      |
| D214  | I-4  | Q254  | E-8  |       |      |
| D215  | F-4  | Q255  | D-8  |       |      |
| D216  | D-7  | Q256  | C-9  |       |      |
| D217  | B-7  | Q257  | C-8  |       |      |
| D218  | C-7  | Q258  | D-8  |       |      |
| D219  | I-4  | Q259  | C-7  |       |      |
| D220  | E-6  | Q260  | B-8  |       |      |
| D501  | H-1  | Q261  | B-9  |       |      |
| D601  | C-2  | Q262  | B-9  |       |      |
| D602  | B-2  | Q263  | B-10 |       |      |
| D603  | D-2  | Q264  | E-4  |       |      |
| D605  | A-1  | Q265  | D-4  |       |      |
|       |      | Q266  | G-7  |       |      |
| IC201 | C-3  | Q267  | G-8  |       |      |
| IC202 | F-10 | Q268  | D-6  |       |      |
| IC203 | F-12 | Q269  | C-9  |       |      |
| IC204 | C-4  | Q270  | C-10 |       |      |
| IC205 | E-10 | Q271  | B-7  |       |      |
| IC206 | H-8  | Q272  | B-7  |       |      |
| IC207 | E-11 | Q273  | B-7  |       |      |
| IC209 | I-3  | Q274  | B-6  |       |      |
| IC210 | G-4  | Q275  | C-6  |       |      |
| IC211 | F-4  | Q276  | C-5  |       |      |
| IC212 | G-5  | Q277  | C-5  |       |      |
| IC213 | H-4  | Q279  | F-12 |       |      |
| IC214 | G-6  | Q280  | I-9  |       |      |
| IC215 | D-4  | Q281  | I-8  |       |      |
| IC216 | E-4  | Q282  | C-5  |       |      |
| IC217 | E-2  | Q501  | H-1  |       |      |
| IC218 | B-8  | Q601  | C-2  |       |      |
| IC219 | E-7  | Q602  | B-2  |       |      |
| IC220 | E-6  | Q603  | C-3  |       |      |
| IC221 | D-10 | Q604  | C-2  |       |      |
| IC222 | E-12 | Q605  | H-13 |       |      |
| IC223 | F-11 | Q801  | B-5  |       |      |
| IC224 | I-2  | Q802  | B-5  |       |      |
| IC225 | E-12 | Q803  | B-4  |       |      |
| IC501 | G-2  |       |      |       |      |
| IC502 | F-3  |       |      |       |      |
| IC503 | G-3  |       |      |       |      |
| IC504 | H-3  | RV011 | B-11 |       |      |
| IC505 | H-2  | RV012 | B-12 |       |      |
| IC601 | B-1  | RV201 | C-3  |       |      |
| IC602 | C-2  | RV202 | I-2  |       |      |
| IC603 | I-12 | RV203 | I-4  |       |      |
|       |      | RV204 | G-4  |       |      |
|       |      | RV205 | F-7  |       |      |
| Q201  | B-3  | RV206 | E-9  |       |      |
| Q202  | B-4  | RV207 | D-9  |       |      |
| Q203  | C-4  | RV208 | E-6  |       |      |
| Q204  | C-4  | RV209 | C-10 |       |      |
| Q205  | B-4  | RV210 | E-5  |       |      |
| Q206  | F-8  | RV211 | E-8  |       |      |
| Q207  | G-9  | RV212 | D-12 |       |      |
| Q208  | F-9  | RV213 | B-8  |       |      |
| Q209  | G-9  |       |      |       |      |







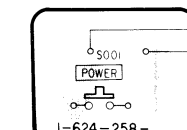
## Note:

- : indicates a lead wire mounted on the component side.
- : indicates a lead wire mounted on the printed side.
- ⊗ : Through hole.
- : soldering side.

- Digital transistors (DT-67: Q237, Q241, Q242, Q279, Q501) have the built-in resistor.

When indicating parts by reference number, please include the board name.

## AC-28 BOARD

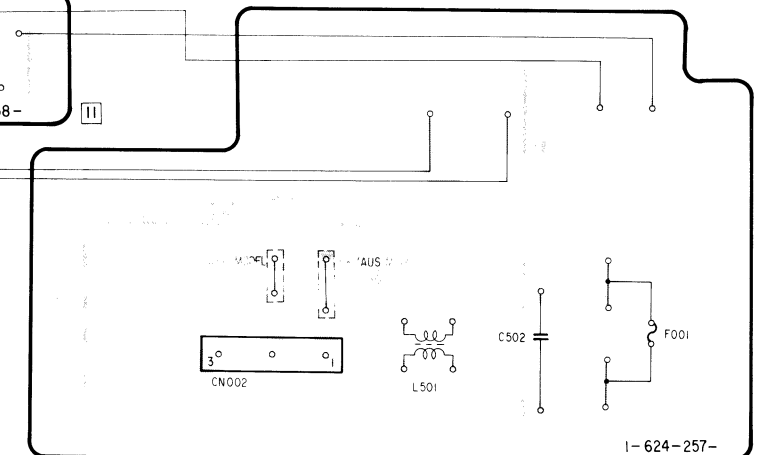


AC 220V  
50/60Hz  
(AEP MODEL)

AC 240V  
50/60Hz  
(UK MODEL)

AC 240V  
50Hz  
(Australian model)

## AC-27 BOARD





DT-67

[POWER, AUDIO BLOCK]

AC-27

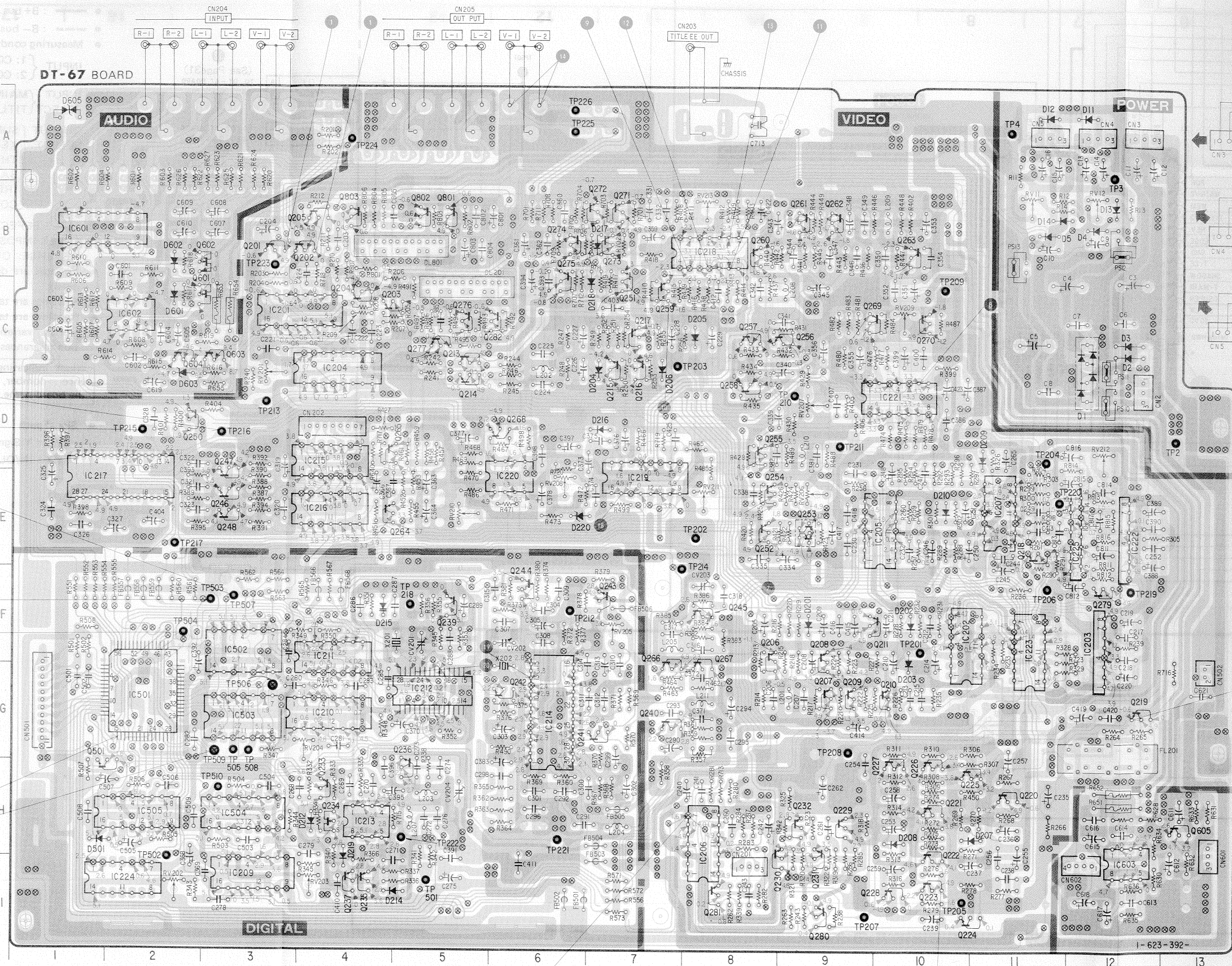
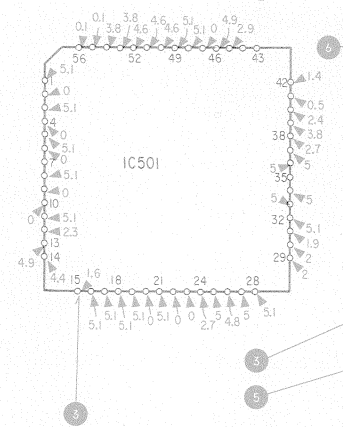
[AC INPUT]

AC-28

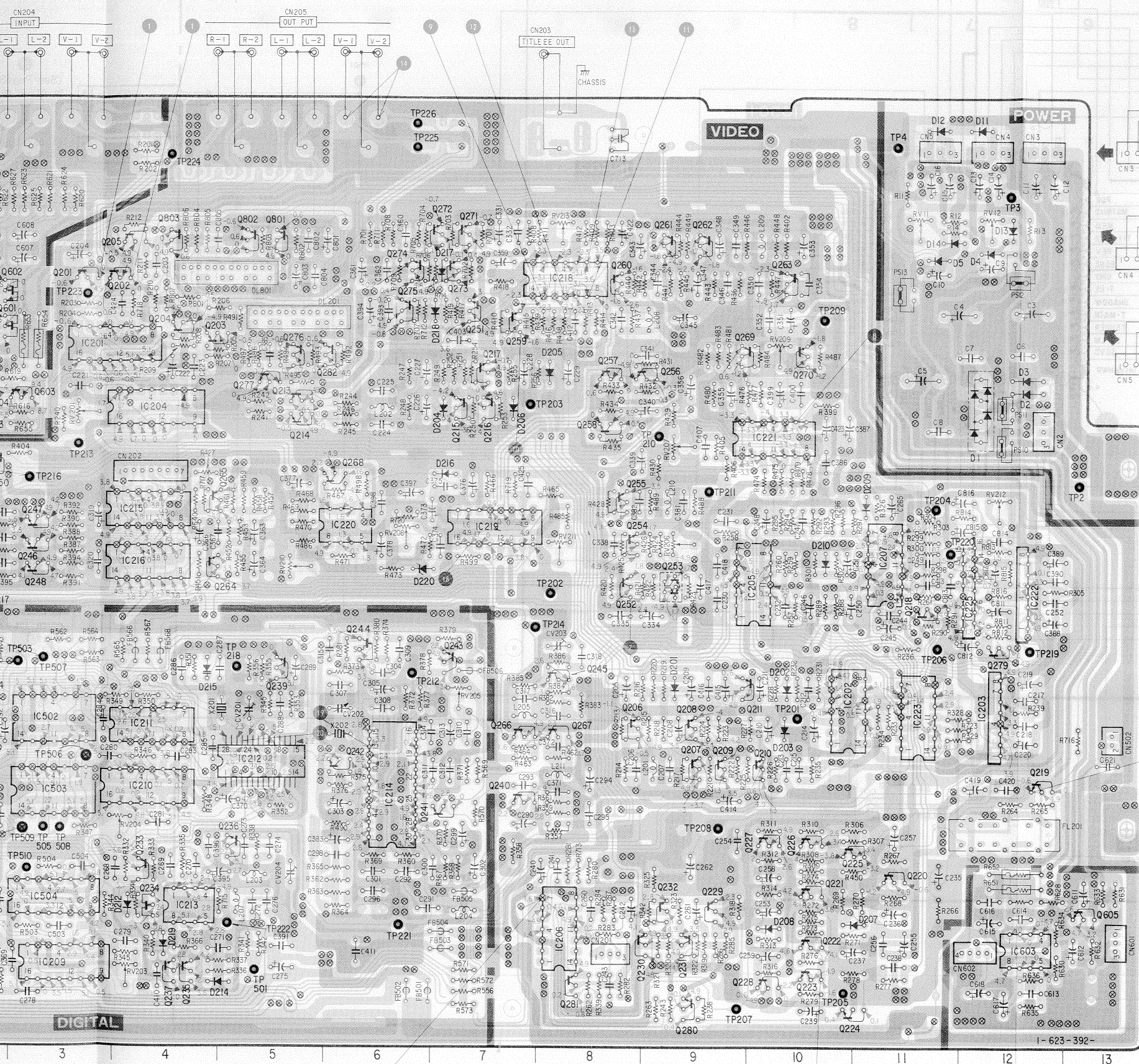
[POWER SWITCH]

— Ref. No. DT-67 BOARD: No. 1000 Series, AC-27 BOARD, AC-28 BOARD: No. 2000 Series —

|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| CN002 | D-12 | Q210  | G-10 | TP002 | D-13 |
| CN003 | A-12 | Q211  | F-9  | TP003 | A-12 |
| CN004 | A-12 | Q213  | C-5  | TP004 | A-11 |
| CN005 | A-11 | Q214  | D-5  | TP201 | F-10 |
| CN201 | I-8  | Q215  | C-7  | TP202 | E-8  |
| CN202 | D-4  | Q216  | C-7  | TP203 | C-7  |
| CN203 | A-8  | Q217  | C-7  | TP204 | D-11 |
| CN204 | A-3  | Q218  | E-11 | TP205 | I-10 |
| CN205 | A-5  | Q219  | G-12 | TP206 | F-11 |
| CN501 | G-1  | Q220  | H-11 | TP207 | I-9  |
| CN502 | G-13 | Q221  | H-10 | TP208 | G-9  |
| CN601 | H-13 | Q222  | I-10 | TP209 | C-10 |
| CN602 | I-12 | Q223  | I-10 | TP210 | D-9  |
|       |      | Q224  | I-10 | TP211 | D-9  |
|       |      | Q225  | H-11 | TP212 | F-6  |
| CV201 | F-5  | Q226  | H-10 | TP213 | D-3  |
| CV202 | F-6  | Q227  | H-10 | TP214 | F-7  |
| CV203 | F-8  | Q228  | I-10 | TP215 | D-2  |
| CV204 | H-5  | Q229  | H-9  | TP216 | D-3  |
|       |      | Q230  | I-9  | TP217 | E-2  |
| D001  | C-12 | Q231  | I-9  | TP218 | F-5  |
| D002  | C-12 | Q232  | H-9  | TP219 | F-12 |
| D003  | C-12 | Q233  | H-4  | TP220 | E-11 |
| D004  | B-11 | Q234  | H-4  | TP221 | H-6  |
| D011  | A-12 | Q235  | I-4  | TP222 | H-5  |
| D012  | A-11 | Q236  | H-5  | TP223 | B-3  |
| D013  | B-12 | Q237  | I-4  | TP224 | A-4  |
| D014  | B-11 | Q239  | F-5  | TP225 | A-6  |
| D201  | F-9  | Q240  | G-7  | TP226 | A-6  |
| D202  | F-10 | Q241  | G-7  | TP501 | I-5  |
| D203  | G-10 | Q242  | G-6  | TP502 | I-2  |
| D204  | C-7  | Q243  | F-7  | TP503 | F-3  |
| D205  | C-8  | Q244  | F-6  | TP504 | F-2  |
| D206  | C-7  | Q245  | F-8  | TP505 | G-3  |
| D207  | H-11 | Q246  | E-3  | TP506 | G-3  |
| D208  | H-10 | Q247  | E-3  | TP507 | F-3  |
| D209  | D-11 | Q248  | E-3  | TP508 | G-3  |
| D210  | E-10 | Q250  | D-2  | TP509 | G-3  |
| D212  | H-4  | Q251  | C-7  | TP510 | H-3  |
| D214  | I-4  | Q252  | E-8  |       |      |
| D215  | F-4  | Q253  | E-9  |       |      |
| D216  | D-7  | Q254  | E-8  |       |      |
| D217  | B-7  | Q255  | D-8  |       |      |
| D218  | C-7  | Q256  | C-9  |       |      |
| D219  | I-4  | Q257  | C-8  |       |      |
| D220  | E-6  | Q258  | D-8  |       |      |
| D501  | H-1  | Q259  | C-7  |       |      |
| D601  | C-2  | Q260  | B-8  |       |      |
| D602  | B-2  | Q261  | B-9  |       |      |
| D603  | D-2  | Q262  | B-9  |       |      |
| D605  | A-1  | Q263  | B-10 |       |      |
|       |      | Q264  | E-4  |       |      |
| IC201 | C-3  | Q265  | D-4  |       |      |
| IC202 | F-10 | Q266  | G-7  |       |      |
| IC203 | F-12 | Q267  | G-8  |       |      |
| IC204 | C-4  | Q268  | D-6  |       |      |
| IC205 | E-10 | Q269  | C-9  |       |      |
| IC206 | H-8  | Q270  | C-10 |       |      |
| IC207 | E-11 | Q271  | B-7  |       |      |
| IC209 | I-3  | Q272  | B-7  |       |      |
| IC210 | G-4  | Q273  | B-7  |       |      |
| IC211 | F-4  | Q274  | B-6  |       |      |
| IC212 | G-5  | Q275  | C-6  |       |      |
| IC213 | H-4  | Q276  | C-5  |       |      |
| IC214 | G-6  | Q277  | C-5  |       |      |
| IC215 | D-4  | Q279  | F-12 |       |      |
| IC216 | E-4  | Q280  | I-9  |       |      |
| IC217 | E-2  | Q281  | I-8  |       |      |
| IC218 | B-8  | Q282  | C-5  |       |      |
| IC219 | E-7  | Q501  | H-1  |       |      |
| IC220 | E-6  | Q601  | C-2  |       |      |
| IC221 | D-10 | Q602  | B-2  |       |      |
| IC222 | E-12 | Q603  | C-3  |       |      |
| IC223 | F-11 | Q604  | C-2  |       |      |
| IC224 | I-2  | Q605  | H-13 |       |      |
| IC225 | E-12 | Q801  | B-5  |       |      |
| IC501 | G-2  | Q802  | B-5  |       |      |
| IC502 | F-3  | Q803  | B-4  |       |      |
| IC503 | G-3  |       |      |       |      |
| IC504 | H-3  | RV011 | B-11 |       |      |
| IC505 | H-2  | RV012 | B-12 |       |      |
| IC601 | B-1  | RV201 | C-3  |       |      |
| IC602 | C-2  | RV202 | I-2  |       |      |
| IC603 | I-12 | RV203 | I-4  |       |      |
|       |      | RV204 | G-4  |       |      |
|       |      | RV205 | F-7  |       |      |
| Q201  | B-3  | RV206 | E-9  |       |      |
| Q202  | B-4  | RV207 | D-9  |       |      |
| Q203  | C-4  | RV208 | E-6  |       |      |
| Q204  | C-4  | RV209 | C-10 |       |      |
| Q205  | B-4  | RV210 | E-5  |       |      |
| Q206  | F-8  | RV211 | E-8  |       |      |
| Q207  | G-9  | RV212 | D-12 |       |      |
| Q208  | F-9  | RV213 | B-8  |       |      |
| Q209  | G-9  |       |      |       |      |







MIC AMP

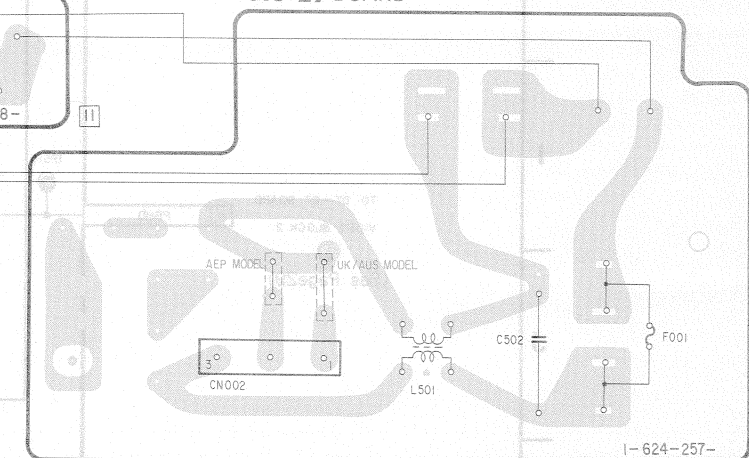
## Note:

- indicates a lead wire mounted on the component side.
- indicates a lead wire mounted on the printed side.
- ⊗ indicates a through hole.
- ⊙ indicates a soldering side.
- indicates a component side.
- Digital transistors (DT-67: Q237, Q241, Q242, Q279, Q501) have the built-in resistor.

When indicating parts by reference number, please include the board name.

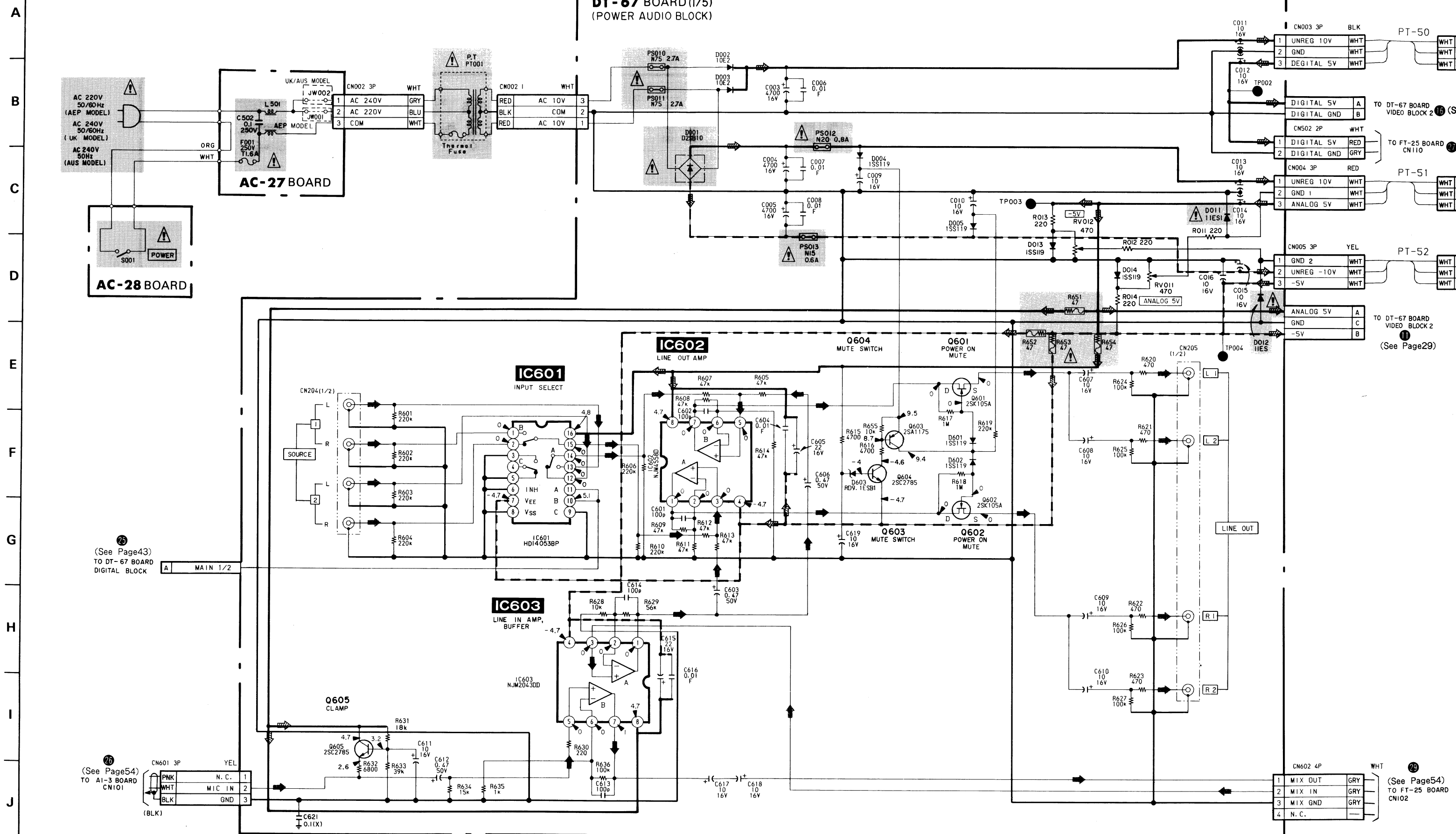
AC-28 BOARD

AC-27 BOARD





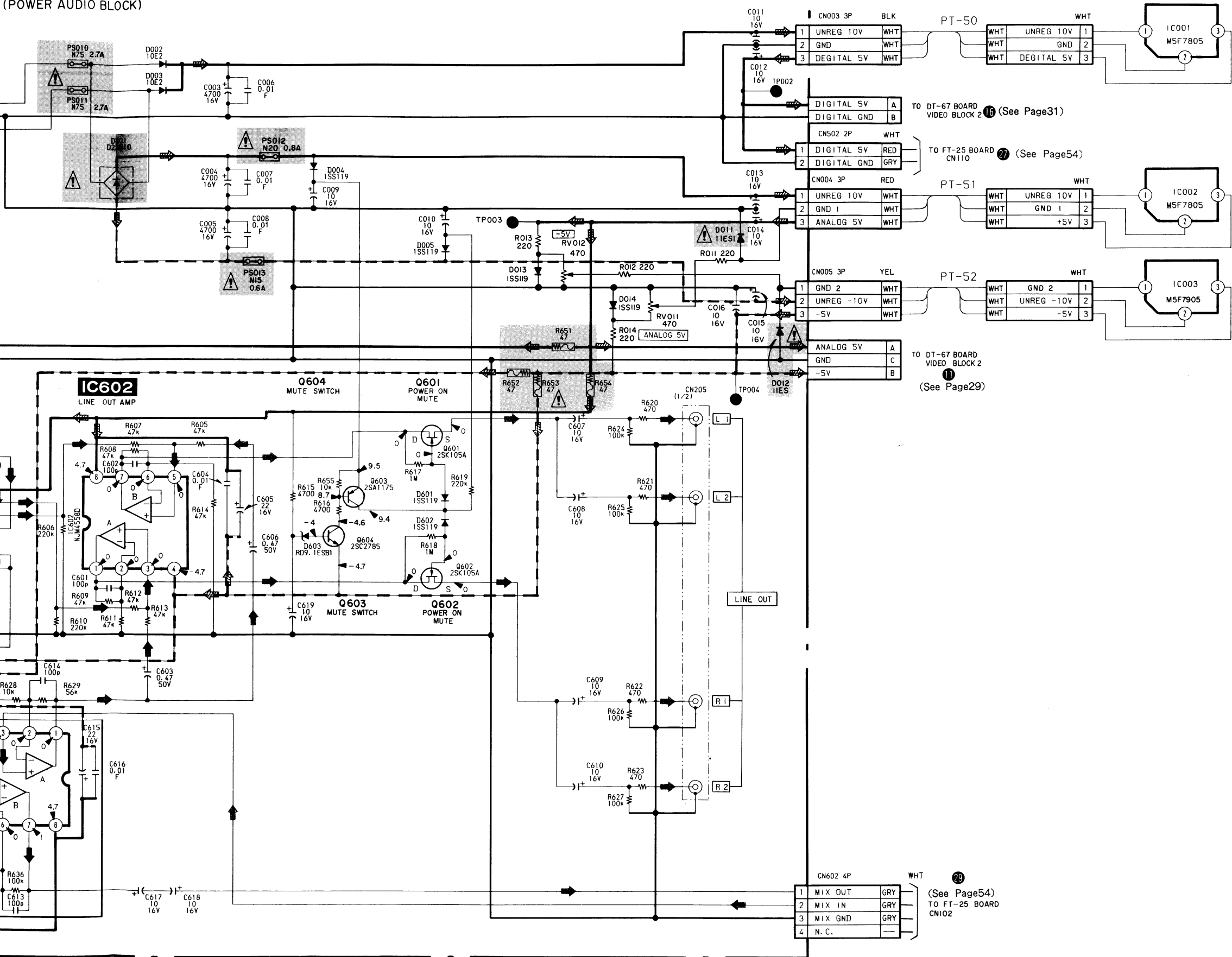
— Ref. No. DT-67 BOARD: No. 1000 Series, AC-27 BOARD, AC-28 BOARD: No. 2000 Series —





7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

DT - 67 BOARD (I/5)  
(POWER AUDIO BLOCK)



- Note:**
- All resistors are in ohms, 1/4W unless otherwise noted. k $\Omega$ : 1000 $\Omega$ , M $\Omega$ : 1000k $\Omega$ .
  - All capacitors are in  $\mu$ F unless otherwise noted. pF:  $\mu$  $\mu$ F. 50V or less are not indicated except for electrolytics and tantalums.
  - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
  - : nonflammable resistor.
  - : fusible resistor.
  - : panel designation.
  - $\Delta$  : internal component.
  - : adjustment for repair.
  - : B+ bus.
  - : B- bus.
  - Measuring conditions of voltage value and waveform
- INPUT { 1: COLOR BAR  
2: COLOR BAR
- INPUT { MAIN: 1  
SELECT { TITLE: 2
- OUTPUT { SUPER IMPOSE: ON  
SELECT { KEY LEVEL:  
THE POINT WHERE THE GREEN OF COLOR  
BAR IS HIDDEN WITH THE TITLE COLOR  
(RED)  
COLOR SELECT: RED
- TITLE EFFECT: NORMAL  
SUPER IMPOSE LEVEL: MAX  
REVERSE: OFF
- Voltages are dc with respect to ground unless otherwise noted.
  - Readings are taken with a color-bar signal input.
  - Readings are taken with a digital multimeter (DC10M $\Omega$ ).
  - Voltage variations may be noted due to normal production tolerances.

**Note:** The components identified by shading and mark are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- **Signal path**
  - : AUDIO signal
  - : IN/OUT direction of B+ and B-.

**FT-25**

[FUNCTION SWITCH]

**AI-3**

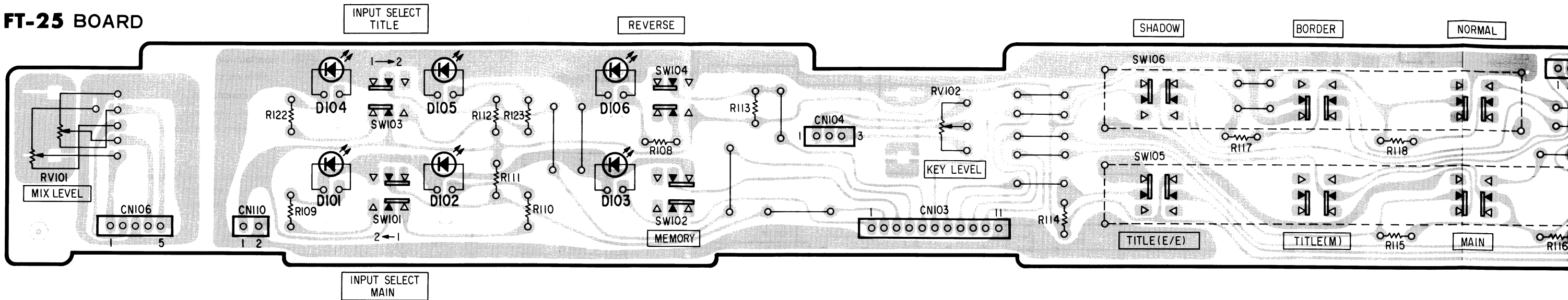
[MIC JACK]

**LH-2**

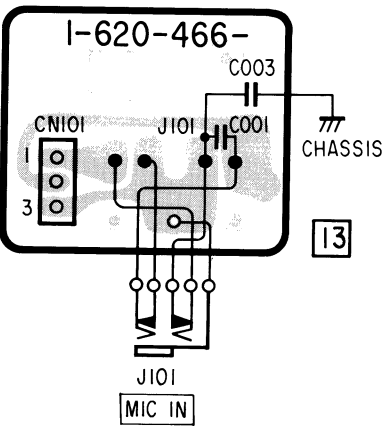
[LED]

— Ref. No. FT-25 BOARD, AI-3 BOARD, LH-2 BOARD: No. 3000 Series —

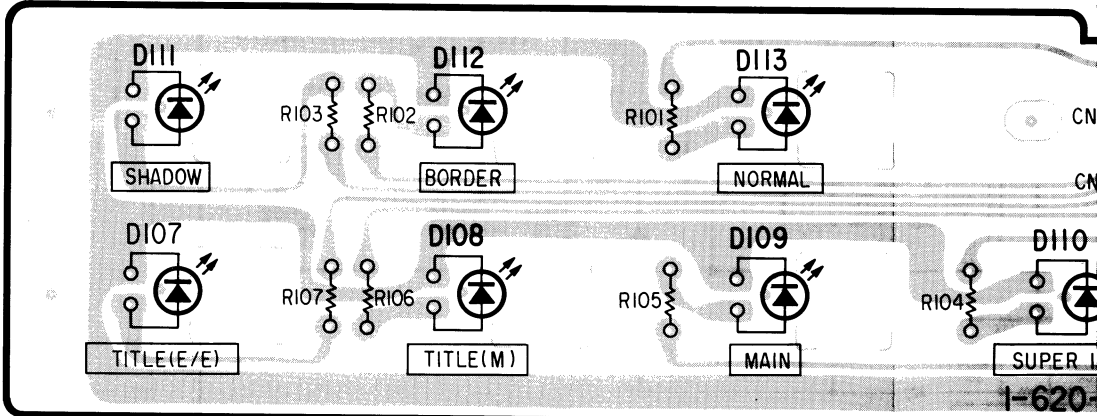
**FT-25 BOARD**



**AI-3 BOARD**



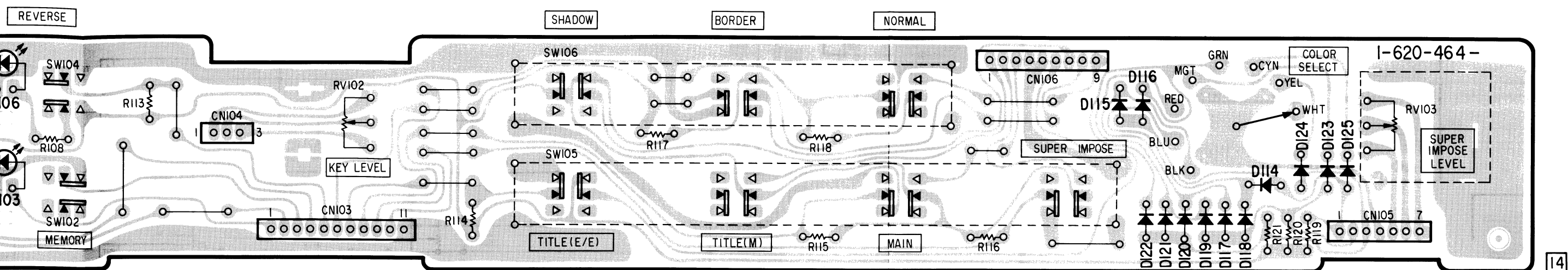
**LH-2 BOARD**



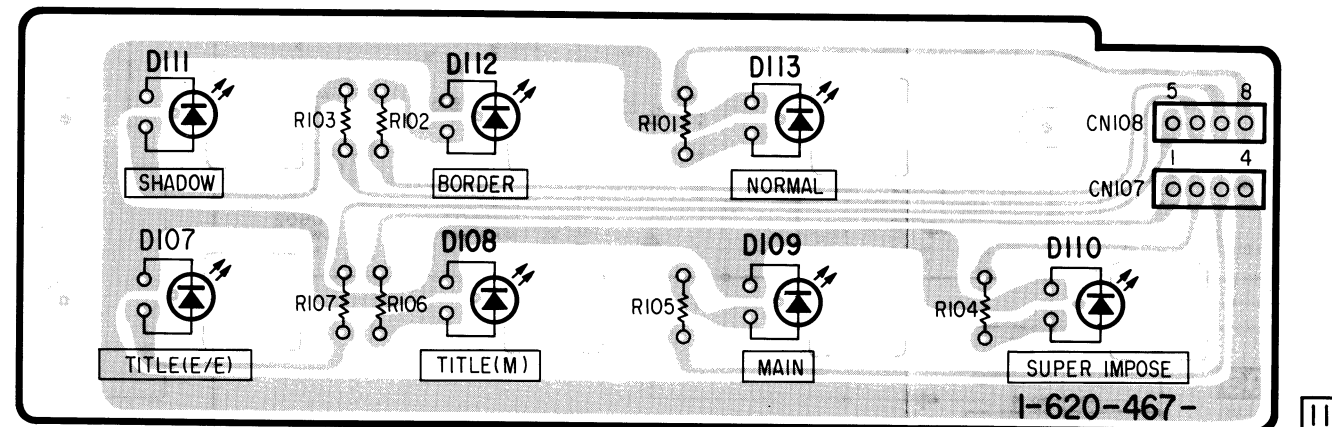
Note:  
● ○ — : indicates a lead wire mounted on the component side.  
● — : indicates a lead wire mounted on the printed side.  
● ■ : soldering side.

When indicating parts by reference number, please include the board name.





## LH-2 BOARD



FT-25

[FUNCTION SWITCH]

AI-3

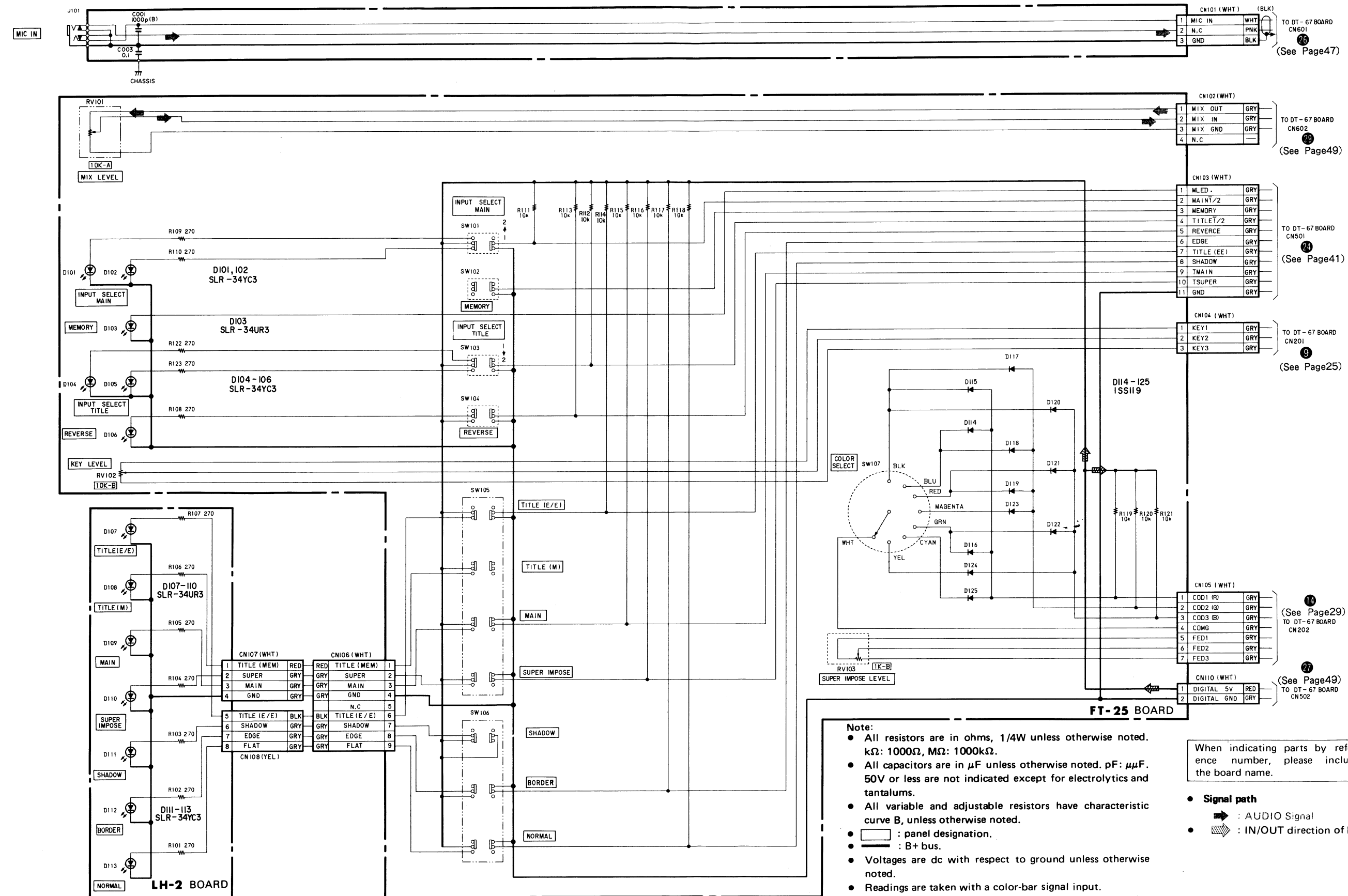
[MIC JACK]

LH-2

[LED]

- Ref. No. FT-25 BOARD, AI-3 BOARD, LH-2 BOARD: No. 3000 Series -

AI-3 BOARD



- Note:**
- All resistors are in ohms, 1/4W unless otherwise noted. kΩ: 1000Ω, MΩ: 1000kΩ.
  - All capacitors are in μF unless otherwise noted. pF: μμF. 50V or less are not indicated except for electrolytics and tantalums.
  - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
  - : panel designation.
  - : B+ bus.
  - Voltages are dc with respect to ground unless otherwise noted.
  - Readings are taken with a color-bar signal input.
  - Readings are taken with a digital multimeter (DC10MΩ).
  - Voltage variations may be noted due to normal production tolerances.

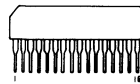
When indicating parts by reference number, please include the board name.

- **Signal path**
- → : AUDIO Signal
- → : IN/OUT direction of B+

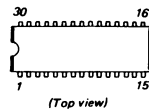


3-3. SEMICONDUCTORS

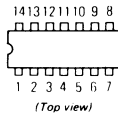
BA1332L



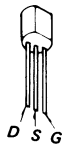
M51271SP



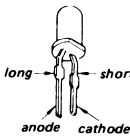
TA7158P  
TC74HCU04P  
TC74HC08P  
 $\mu$ PC319C  
 $\mu$ PC339C  
 $\mu$ PD41221C-70



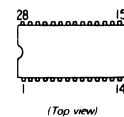
2SK523-K1



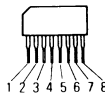
SLR34UR3  
TLY123



CX7930  
V7040



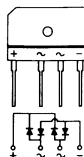
M51848L



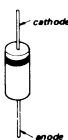
2SA979



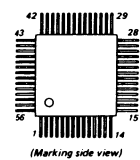
D2SB10



1T25-3



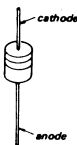
MSM72033GS-VK



NJM2043D-D  
 $\mu$ PC4558C  
TL082CP



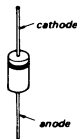
2SA1048GR  
2SC634SP  
2SC2669  
DTC114ES  
DTC143ES  
DTC144ES



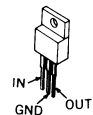
RD9.1ES-B1  
RD3.9ES-B1  
ISS119  
11ES2



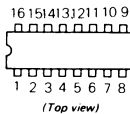
10E2



M5F7805  
M5F7905



SN74LS221N  
 $\mu$ PD4053BC



2SK105A-10



RD9.1EW



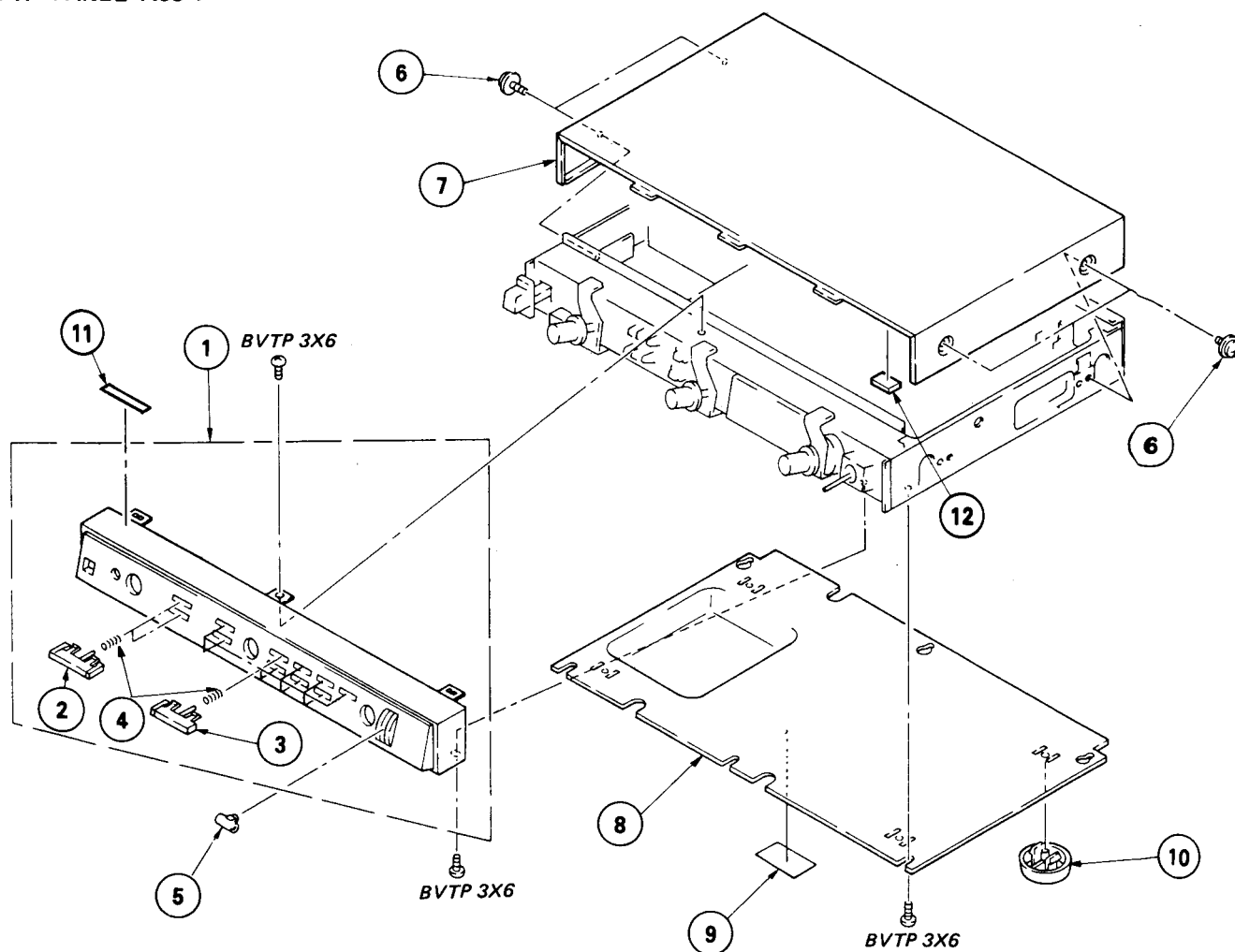
## SECTION 4 EXPLODED VIEWS

### NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

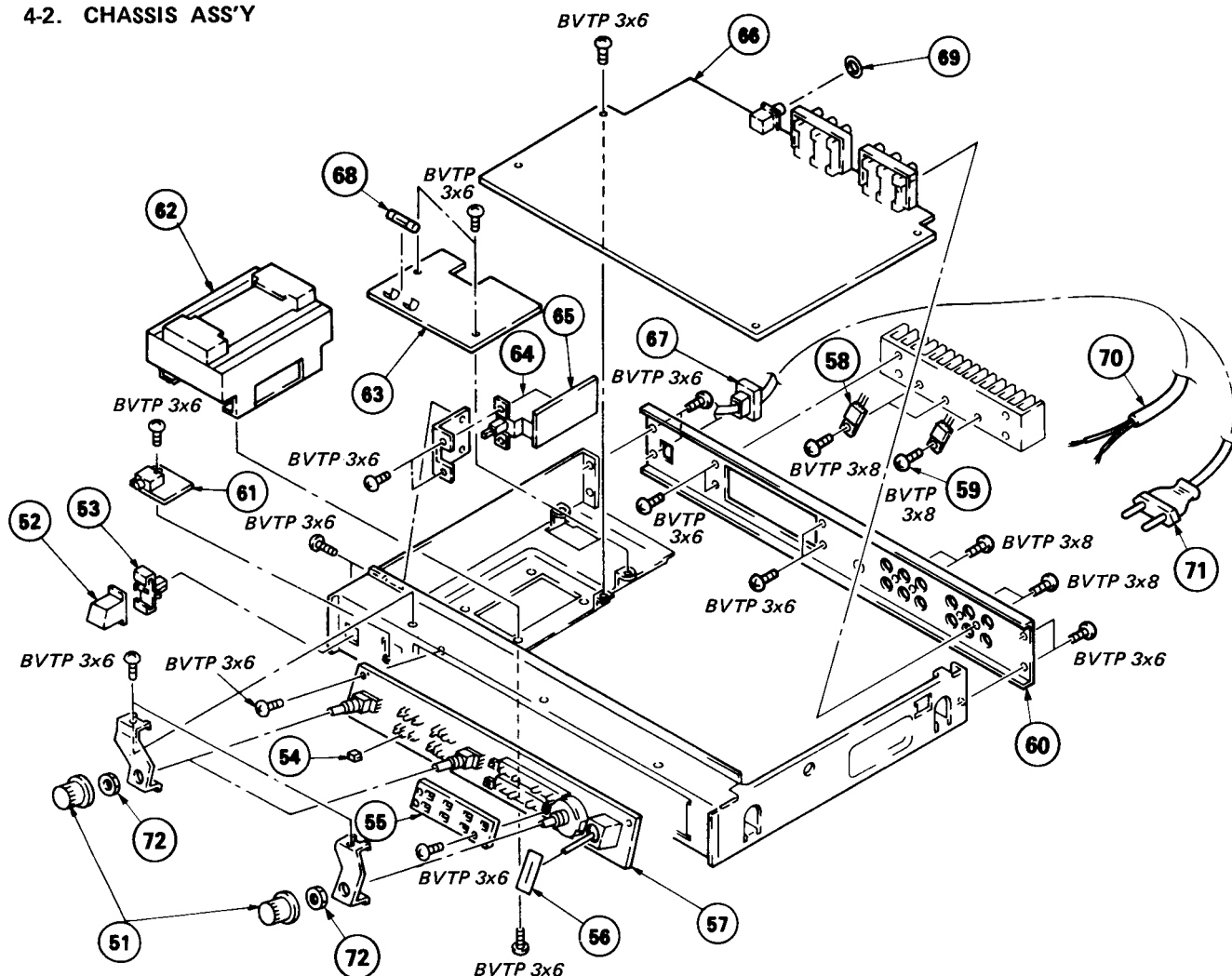
### 4-1. PANEL ASS'Y



| No. | Part No.     | Description            | Remark | No. | Part No.      | Description                                | Remark |
|-----|--------------|------------------------|--------|-----|---------------|--------------------------------------------|--------|
| 1   | A-7080-430-A | PANEL ASSY             | 2-4    | 8   | *2-374-619-00 | PLATE, BOTTOM                              |        |
| 2   | X-2118-207-1 | PUSH BUTTON (SLR) ASSY |        | 9   | *2-118-269-01 | LABEL, MODEL NUMBER (AEP MODE L)           |        |
| 3   | X-2118-205-1 | PUSH BUTTON (SL) ASSY  |        | 9   | *2-118-270-01 | LABEL, MODEL NUMBER (UK/AUSTRALIAN MODELS) |        |
| 4   | 2-217-533-00 | SPRING, COMPRESSION    |        | 10  | X-3701-069-0  | FOOT ASSY, M.F                             |        |
| 5   | X-2118-213-1 | KNOB ASSY, FADER       |        | 11  | 3-701-690-00  | LABEL (MADE IN JAPAN) (UK MODEL)           |        |
| 6   | 3-703-668-11 | SCREW, CASE            |        | 12  | 9-911-840-XX  | CUSHION (A)                                |        |
| 7   | 4-881-528-51 | CASE                   |        |     |               |                                            |        |



## 4-2. CHASSIS ASS'Y



| No. | Part No.      | Description             | Remark | No. | Part No.       | Description                            | Remark |
|-----|---------------|-------------------------|--------|-----|----------------|----------------------------------------|--------|
| 51  | X-2118-214-1  | KNOB (L) ASSY, VOL      |        | 62  | ▲ 1-448-999-11 | TRANSFORMER, POWER (PT001)             |        |
| 52  | 2-118-215-01  | BUTTON (POWER)          |        | 63  | *1-624-257-11  | AC-27 BOARD                            |        |
| 53  | 2-118-218-01  | JOINTER                 |        | 64  | ▲ 1-553-318-00 | SWITCH, PUSH (AC POWER) (1 KEY) (S001) |        |
| 54  | 2-118-220-01  | JOINT                   |        | 65  | *1-624-258-11  | AC-28 BOARD                            |        |
| 55  | *1-620-528-11 | LH-2 BOARD              |        | 66  | *A-7060-970-A  | DT-67 BOARD, COMPLETE                  |        |
| 56  | 2-118-209-01  | SHEET, LEVER            |        | 67  | ▲ 3-703-244-00 | BUSHING (2104), CORD                   |        |
| 57  | *1-620-464-14 | FT-25 BOARD             |        | 68  | ▲ 1-532-259-00 | FUSE, TIME-LAG (250V, 1.6A) (F001)     |        |
| 58  | 8-759-604-29  | IC M5F7805 (IC001, 002) |        | 69  | 2-385-714-01   | INSULATOR                              |        |
| 59  | 8-759-604-47  | IC M5F7905 (IC003)      |        | 70  | ▲ 1-551-884-00 | CORD, POWER (UK MODEL)                 |        |
| 60  | *2-118-242-21 | PLATE, JACK             |        | 71  | ▲ 1-551-908-31 | CORD, POWER, EULO PLUG (AEP MODEL)     |        |
| 61  | *1-620-466-13 | AI-3 BOARD              |        | 71  | ▲ 1-551-732-00 | CORD, POWER (AUSTRALIAN MODEL)         |        |
|     |               |                         |        | 72  | 2-118-268-01   | NUT (M9), HEXAGON                      |        |

### SCREW

|              |                            |  |
|--------------|----------------------------|--|
| 7-682-147-01 | SCREW +P 3X6               |  |
| 7-685-645-79 | SCREW +BVTP 3X6 TYPE2 IT-3 |  |
| 7-685-645-79 | SCREW +BVTP 3X6 TYPE2 IT-3 |  |
| 7-685-645-79 | SCREW +BVTP 3X6 TYPE2      |  |
| 7-685-645-79 | SCREW +BVTP 3X6 TYPE2      |  |
| 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 |  |
| 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 |  |
| 7-685-646-79 | SCREW +BVTP 3X8 TYPE2      |  |
| 7-685-646-79 | SCREW +BVTP 3X8 TYPE2      |  |

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

# SECTION 5 ELECTRICAL PARTS LIST

DT-67

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- RESISTORS**  
All resistors are in ohms  
METAL: Metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- XX, -X mean standardized parts, so they may have some difference from the original one.
- SEMICONDUCTORS**  
In each case, U:  $\mu$ , for example:  
UA.....:  $\mu$ A....., UPA.....:  $\mu$ PA.....,  
UPB.....:  $\mu$ PB....., UPC.....:  $\mu$ PC.....,  
UPD.....:  $\mu$ PD.....
- CAPACITORS**  
MF:  $\mu$ F, PF:  $\mu$  $\mu$ F
- COILS**  
MMH: mH, UH:  $\mu$ H

| Ref.No                                       | Part No.     | Description     | Remark  | Ref.No | Part No.     | Description     | Remark  |
|----------------------------------------------|--------------|-----------------|---------|--------|--------------|-----------------|---------|
| *A-7060-970-A DT-67 BOARD, COMPLETE<br>***** |              |                 |         | C241   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C242   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C243   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C244   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C245   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C246   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C247   | 1-102-824-00 | CERAMIC 470PF   | 5% 50V  |
|                                              |              |                 |         | C248   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C249   | 1-102-980-00 | CERAMIC 270PF   | 5% 50V  |
|                                              |              |                 |         | C250   | 1-131-343-00 | TANTALUM 0.22MF | 10% 35V |
|                                              |              |                 |         | C251   | 1-131-341-00 | TANTALUM 0.1MF  | 10% 35V |
|                                              |              |                 |         | C252   | 1-130-493-00 | MYLAR 0.068MF   | 5% 50V  |
|                                              |              |                 |         | C253   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C254   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C255   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C256   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C257   | 1-124-925-11 | ELECT 2.2MF     | 20% 50V |
|                                              |              |                 |         | C258   | 1-131-343-00 | TANTALUM 0.22MF | 10% 35V |
|                                              |              |                 |         | C259   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C260   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C261   | 1-123-622-00 | ELECT 22MF      | 20% 16V |
|                                              |              |                 |         | C262   | 1-124-473-11 | ELECT 1000MF    | 20% 10V |
|                                              |              |                 |         | C265   | 1-124-245-00 | ELECT 4.7MF     | 20% 25V |
|                                              |              |                 |         | C268   | 1-102-973-00 | CERAMIC 100PF   | 5% 50V  |
|                                              |              |                 |         | C269   | 1-130-471-00 | MYLAR 0.001MF   | 5% 50V  |
|                                              |              |                 |         | C270   | 1-130-471-00 | MYLAR 0.001MF   | 5% 50V  |
|                                              |              |                 |         | C271   | 1-130-483-00 | MYLAR 0.01MF    | 5% 50V  |
|                                              |              |                 |         | C272   | 1-102-764-00 | CERAMIC 100PF   | 5% 50V  |
|                                              |              |                 |         | C273   | 1-102-762-00 | CERAMIC 82PF    | 5% 50V  |
|                                              |              |                 |         | C274   | 1-102-756-00 | CERAMIC 47PF    | 5% 50V  |
|                                              |              |                 |         | C275   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C276   | 1-102-963-00 | CERAMIC 33PF    | 5% 50V  |
|                                              |              |                 |         | C278   | 1-130-471-00 | FILM 0.001MF    | 5% 50V  |
|                                              |              |                 |         | C279   | 1-130-471-00 | MYLAR 0.001MF   | 5% 50V  |
|                                              |              |                 |         | C280   | 1-102-973-00 | CERAMIC 100PF   | 5% 50V  |
|                                              |              |                 |         | C281   | 1-102-978-00 | CERAMIC 220PF   | 5% 50V  |
|                                              |              |                 |         | C282   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C283   | 1-102-973-00 | CERAMIC 100PF   | 5% 50V  |
|                                              |              |                 |         | C284   | 1-161-772-11 | CERAMIC 0.1MF   | 10% 25V |
|                                              |              |                 |         | C285   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C286   | 1-102-949-00 | CERAMIC 12PF    | 5% 50V  |
|                                              |              |                 |         | C287   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C288   | 1-130-487-00 | MYLAR 0.022MF   | 5% 50V  |
|                                              |              |                 |         | C289   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C290   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C291   | 1-102-973-00 | CERAMIC 100PF   | 5% 50V  |
|                                              |              |                 |         | C292   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C293   | 1-124-499-11 | ELECT 1MF       | 20% 50V |
|                                              |              |                 |         | C294   | 1-124-462-00 | ELECT 10MF      | 20% 16V |
|                                              |              |                 |         | C295   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C296   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C298   | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |
|                                              |              |                 |         | C299   | 1-124-902-00 | ELECT 0.47MF    | 20% 50V |
| C003                                         | 1-124-898-11 | ELECT 4700MF    | 20% 16V |        |              |                 |         |
| C004                                         | 1 124-898-11 | ELECT 4700MF    | 20% 16V |        |              |                 |         |
| C005                                         | 1-124-898-11 | ELECT 4700MF    | 20% 16V |        |              |                 |         |
| C006                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C007                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C008                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C009                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C010                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C011                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C012                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C013                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C014                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C015                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C016                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C203                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C204                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C205                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C206                                         | 1-101-361-00 | CERAMIC 150PF   | 5% 50V  |        |              |                 |         |
| C207                                         | 1-101-361-00 | CERAMIC 150PF   | 5% 50V  |        |              |                 |         |
| C208                                         | 1-124-925-11 | ELECT 2.2MF     | 20% 50V |        |              |                 |         |
| C209                                         | 1-123-622-00 | ELECT 22MF      | 20% 16V |        |              |                 |         |
| C210                                         | 1-124-902-00 | ELECT 0.47MF    | 20% 50V |        |              |                 |         |
| C211                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C212                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C213                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C214                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C215                                         | 1-130-471-00 | MYLAR 0.001MF   | 5% 50V  |        |              |                 |         |
| C217                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C218                                         | 1-130-477-00 | MYLAR 0.0033MF  | 5% 50V  |        |              |                 |         |
| C219                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C220                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C221                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C222                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C223                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C224                                         | 1-102-973-00 | CERAMIC 100PF   | 5% 50V  |        |              |                 |         |
| C225                                         | 1-102-973-00 | CERAMIC 100PF   | 5% 50V  |        |              |                 |         |
| C226                                         | 1-124-902-00 | ELECT 0.47MF    | 20% 50V |        |              |                 |         |
| C227                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C228                                         | 1-124-499-11 | ELECT 1MF       | 20% 50V |        |              |                 |         |
| C229                                         | 1-124-462-00 | ELECT 10MF      | 20% 16V |        |              |                 |         |
| C230                                         | 1-101-004-00 | CERAMIC 0.01MF  | 50V     |        |              |                 |         |
| C231                                         | 1-102-824-00 | CERAMIC 470PF   | 5% 50V  |        |              |                 |         |
| C232                                         | 1-130-471-00 | MYLAR 0.001MF   | 5% 50V  |        |              |                 |         |
| C235                                         | 1-126-101-11 | ELECT 100MF     | 20% 16V |        |              |                 |         |
| C236                                         | 1-124-245-00 | ELECT 4.7MF     | 20% 25V |        |              |                 |         |
| C237                                         | 1-123-622-00 | ELECT 22MF      | 20% 16V |        |              |                 |         |
| C238                                         | 1-102-973-00 | CERAMIC 100PF   | 5% 50V  |        |              |                 |         |
| C239                                         | 1-131-343-00 | TANTALUM 0.22MF | 10% 35V |        |              |                 |         |
| C240                                         | 1 124-462 00 | ELECT 10MF      | 20% 16V |        |              |                 |         |



| Ref.No | Part No.     | Description |          |        | Remark | Ref.No | Part No.     | Description |         |       | Remark |
|--------|--------------|-------------|----------|--------|--------|--------|--------------|-------------|---------|-------|--------|
| C300   | 1-130-471-00 | MYLAR       | 0.001MF  | 5%     | 50V    | C361   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C301   | 1-130-471-00 | MYLAR       | 0.001MF  | 5%     | 50V    | C362   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C302   | 1-124-499-11 | ELECT       | 1MF      | 20%    | 50V    | C363   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C303   | 1-123-332-00 | ELECT       | 47MF     | 20%    | 16V    | C364   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C304   | 1-130-487-00 | MYLAR       | 0.022MF  | 5%     | 50V    | C366   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C305   | 1-124-499-11 | ELECT       | 1MF      | 20%    | 50V    | C367   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C307   | 1-102-947-00 | CERAMIC     | 10PF     | 0.5PF  | 50V    | C368   | 1-123-332-00 | ELECT       | 47MF    | 20%   | 16V    |
| C308   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C369   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C309   | 1-130-468-00 | MYLAR       | 560PF    | 5%     | 50V    | C370   | 1-123-332-00 | ELECT       | 47MF    | 20%   | 16V    |
| C310   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C371   | 1-102-976-00 | CERAMIC     | 180PF   | 5%    | 50V    |
| C311   | 1-130-489-00 | MYLAR       | 0.033MF  | 5%     | 50V    | C372   | 1-102-973-00 | CERAMIC     | 100PF   | 5%    | 50V    |
| C312   | 1-130-481-00 | MYLAR       | 0.0068MF | 5%     | 50V    | C373   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C313   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C374   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C314   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C375   | 1-130-483-00 | MYLAR       | 0.01MF  | 5%    | 50V    |
| C315   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C376   | 1-124-499-11 | ELECT       | 1MF     | 20%   | 50V    |
| C316   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C377   | 1-131-368-00 | TANTALUM    | 3.3MF   | 10%   | 16V    |
| C317   | 1-102-961-00 | CERAMIC     | 27PF     | 5%     | 50V    | C378   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C318   | 1-161-772-11 | CERAMIC     | 0.1MF    | 10%    | 25V    | C381   | 1-102-947-00 | CERAMIC     | 10PF    | 0.5PF | 50V    |
| C319   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C382   | 1-102-947-00 | CERAMIC     | 10PF    | 0.5PF | 50V    |
| C320   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C383   | 1-131-348-00 | TANTALUM    | 1.5MF   | 10%   | 25V    |
| C321   | 1-161-772-11 | CERAMIC     | 0.1MF    | 10%    | 25V    | C385   | 1-102-951-00 | CERAMIC     | 15PF    | 5%    | 50V    |
| C322   | 1-161-772-11 | CERAMIC     | 0.1MF    | 10%    | 25V    | C386   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C323   | 1-161-772-11 | CERAMIC     | 0.1MF    | 10%    | 25V    | C387   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C324   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C388   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C325   | 1-126-101-11 | ELECT       | 100MF    | 20%    | 16V    | C389   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C326   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C390   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C327   | 1-126-101-11 | ELECT       | 100MF    | 20%    | 16V    | C391   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C328   | 1-161-772-11 | CERAMIC     | 0.1MF    | 10%    | 25V    | C392   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C331   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C393   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C332   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C394   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C334   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C395   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C335   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C396   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C338   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C397   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C339   | 1-131-345-00 | TANTALUM    | 0.47MF   | 10%    | 35V    | C398   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C340   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C399   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C341   | 1-102-973-00 | CERAMIC     | 100PF    | 5%     | 50V    | C400   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C342   | 1-102-961-00 | CERAMIC     | 27PF     | 5%     | 50V    | C403   | 1-136-169-00 | MYLAR       | 0.22MF  | 5%    | 50V    |
| C343   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C404   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C344   | 1-102-973-00 | CERAMIC     | 100PF    | 5%     | 50V    | C407   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C345   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C410   | 1-101-361-00 | CERAMIC     | 150PF   | 5%    | 50V    |
| C346   | 1-102-973-00 | CERAMIC     | 100PF    | 5%     | 50V    | C411   | 1-161-021-11 | CERAMIC     | 0.047MF | 10%   | 25V    |
| C347   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C412   | 1-102-951-00 | CERAMIC     | 15PF    | 5%    | 50V    |
| C348   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C413   | 1-161-772-11 | CERAMIC     | 0.1MF   | 10%   | 25V    |
| C349   | 1-102-961-00 | CERAMIC     | 27PF     | 5%     | 50V    | C414   | 1-124-444-00 | ELECT       | 220MF   | 20%   | 10V    |
| C350   | 1-136-169-00 | MYLAR       | 0.22MF   | 5%     | 50V    | C415   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C351   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C416   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C352   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C417   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C353   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C418   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C354   | 1-101-004-00 | CERAMIC     | 0.01MF   |        | 50V    | C419   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C355   | 1-124-462-00 | ELECT       | 10MF     | 20%    | 16V    | C420   | 1-101-004-00 | CERAMIC     | 0.01MF  |       | 50V    |
| C356   | 1-126-101-11 | ELECT       | 100MF    | 20%    | 16V    | C422   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C359   | 1-123-332-00 | ELECT       | 47MF     | 20%    | 16V    | C423   | 1-124-462-00 | ELECT       | 10MF    | 20%   | 16V    |
| C360   | 1-102-936-00 | CERAMIC     | 3PF      | 0.25PF | 50V    | C424   | 1-161-772-11 | CERAMIC     | 0.1MF   | 10%   | 25V    |

When indicating parts by reference number, please include the board name.

| Ref.No    | Part No.      | Description    | Remark   |     |     | Ref.No     | Part No.                  | Description               | Remark |
|-----------|---------------|----------------|----------|-----|-----|------------|---------------------------|---------------------------|--------|
| C425      | 1-161-772-11  | CERAMIC        | 0.1MF    | 10% | 25V | CN501      | *1-564-010-11             | PIN, CONNECTOR 11P        |        |
| C501      | 1-130-479-00  | MYLAR          | 0.0047MF | 5%  | 50V | CN502      | *1-564-001-11             | PIN, CONNECTOR 2P         |        |
| C502      | 1-130-475-00  | MYLAR          | 0.0022MF | 5%  | 50V | CN601      | *1-564-002-00             | PIN, CONNECTOR 3P         |        |
| C503      | 1-130-473-00  | MYLAR          | 0.0015MF | 5%  | 50V | CN602      | *1-564-003-00             | PIN, CONNECTOR 4P         |        |
| C504      | 1-162-662-21  | CERAMIC        | 270PF    | 5%  | 50V | TRIMMER    |                           |                           |        |
| C505      | 1-124-499-11  | ELECT          | 1MF      | 20% | 50V | CV201      | 1-141-227-00              | CAP, CERAMIC TRIMMER 20PF |        |
| C506      | 1-101-884-00  | CERAMIC        | 56PF     | 5%  | 50V | CV202      | 1-141-304-21              | TRIMAR, CERAMIC 10PF      |        |
| C507      | 1-124-443-00  | ELECT          | 100MF    | 20% | 10V | CV203      | 1-141-260-00              | TRIMAR, CERAMIC 50PF      |        |
| C508      | 1-161-772-11  | CERAMIC        | 0.1MF    | 10% | 25V | CV204      | 1-141-260-00              | TRIMAR, CERAMIC 50PF      |        |
| C509      | 1-161-772-11  | CERAMIC        | 0.1MF    | 10% | 25V | DIODE      |                           |                           |        |
| C601      | 1-102-973-00  | CERAMIC        | 100PF    | 5%  | 50V | D001       | <del>A</del> 8-719-500-35 | DIODE D2SB10              |        |
| C602      | 1-102-973-00  | CERAMIC        | 100PF    | 5%  | 50V | D002       | 8-719-200-02              | DIODE 10E-2               |        |
| C603      | 1-124-902-00  | ELECT          | 0.47MF   | 20% | 50V | D003       | 8-719-200-02              | DIODE 10E-2               |        |
| C604      | 1-101-004-00  | CERAMIC        | 0.01MF   |     | 50V | D004       | 8-719-911-19              | DIODE 1SS119              |        |
| C605      | 1-123-622-00  | ELECT          | 22MF     | 20% | 16V | D005       | 8-719-911-19              | DIODE 1SS119              |        |
| C606      | 1-124-902-00  | ELECT          | 0.47MF   | 20% | 50V | D011       | <del>A</del> 8-719-200-82 | DIODE 11ES2               |        |
| C607      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D012       | <del>A</del> 8-719-200-82 | DIODE 11ES2               |        |
| C608      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D013       | 8-719-911-19              | DIODE 1SS119              |        |
| C609      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D014       | 8-719-911-19              | DIODE 1SS119              |        |
| C610      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D201       | 8-719-911-19              | DIODE 1SS119              |        |
| C611      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D202       | 8-719-911-19              | DIODE 1SS119              |        |
| C612      | 1-124-902-00  | ELECT          | 0.47MF   | 20% | 50V | D203       | 8-719-911-19              | DIODE 1SS119              |        |
| C613      | 1-102-973-00  | CERAMIC        | 100PF    | 5%  | 50V | D204       | 8-719-911-19              | DIODE 1SS119              |        |
| C614      | 1-102-973-00  | CERAMIC        | 100PF    | 5%  | 50V | D205       | 8-719-911-19              | DIODE 1SS119              |        |
| C615      | 1-123-622-00  | ELECT          | 22MF     | 20% | 16V | D206       | 8-719-911-19              | DIODE 1SS119              |        |
| C616      | 1-101-004-00  | CERAMIC        | 0.01MF   |     | 50V | D207       | 8-719-911-19              | DIODE 1SS119              |        |
| C617      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D208       | 8-719-911-19              | DIODE 1SS119              |        |
| C618      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D209       | 8-719-911-19              | DIODE 1SS119              |        |
| C619      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D210       | 8-719-911-19              | DIODE 1SS119              |        |
| C621      | 1-161-772-11  | CERAMIC        | 0.1MF    | 10% | 25V | D212       | 8-719-911-19              | DIODE 1SS119              |        |
| C713      | 1-421-928-11  | FILTER, NOISE  | 47PF     |     |     | D214       | 8-719-911-19              | DIODE 1SS119              |        |
| C801      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D215       | 8-719-920-97              | DIODE 1T25-3              |        |
| C802      | 1-101-004-00  | CERAMIC        | 0.01MF   |     | 50V | D216       | 8-719-911-19              | DIODE 1SS119              |        |
| C803      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D217       | 8-719-911-19              | DIODE 1SS119              |        |
| C804      | 1-101-004-00  | CERAMIC        | 0.01MF   |     | 50V | D218       | 8-719-911-19              | DIODE 1SS119              |        |
| C805      | 1-102-951-00  | CERAMIC        | 15PF     | 5%  | 50V | D219       | 8-719-911-19              | DIODE 1SS119              |        |
| C811      | 1-124-499-11  | ELECT          | 1MF      | 20% | 50V | D220       | 8-719-109-71              | DIODE RD3.9ESB1           |        |
| C812      | 1-124-462-00  | ELECT          | 10MF     | 20% | 16V | D501       | 8-719-911-19              | DIODE 1SS119              |        |
| C813      | 1-130-491-00  | MYLAR          | 0.047MF  | 5%  | 50V | D601       | 8-719-911-19              | DIODE 1SS119              |        |
| C814      | 1-104-077-00  | POLYSTYRENE    | 0.001MF  | 5%  | 50V | D602       | 8-719-911-19              | DIODE 1SS119              |        |
| C815      | 1-124-902-00  | ELECT          | 0.47MF   | 20% | 50V | D603       | 8-719-110-12              | DIODE RD9.1ESB1           |        |
| C816      | 1-124-902-00  | ELECT          | 0.47MF   | 20% | 50V | D605       | 8-719-105-12              | DIODE RD9.1EW             |        |
| C817      | 1-124-499-11  | ELECT          | 1MF      | 20% | 50V | DELAY LINE |                           |                           |        |
| CONNECTOR |               |                |          |     |     | DL201      | 1-415-557-11              | DELAY LINE                |        |
| CN002     | *1-560-891-00 | PIN, CONNECTOR | 3P       |     |     | DL801      | 1-415-557-11              | DELAY LINE                |        |
| CN003     | *1-560-891-00 | PIN, CONNECTOR | 3P       |     |     |            |                           |                           |        |
| CN004     | *1-560-891-00 | PIN, CONNECTOR | 3P       |     |     |            |                           |                           |        |
| CN005     | *1-560-891-00 | PIN, CONNECTOR | 3P       |     |     |            |                           |                           |        |
| CN201     | *1-564-002-00 | PIN, CONNECTOR | 3P       |     |     |            |                           |                           |        |
| CN202     | *1-564-006-11 | PIN, CONNECTOR | 7P       |     |     |            |                           |                           |        |
| CN203     | 1-507-588-32  | JACK, PIN,     | 1P       |     |     |            |                           |                           |        |
| CN204     | *1-563-524-21 | JACK, PIN      | 6P       |     |     |            |                           |                           |        |
| CN205     | *1-563-524-21 | JACK, PIN      | 6P       |     |     |            |                           |                           |        |

When indicating parts by reference number, please include the board name.

The components identified by shading and mark ~~A~~ are critical for safety. Replace only with part number specified.



# DT-67

| Ref.No                       | Part No.     | Description           |
|------------------------------|--------------|-----------------------|
| <u>FERRITE BEAD INDUCTOR</u> |              |                       |
| FB501                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB502                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB503                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB504                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB505                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB506                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB557                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB558                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB559                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB566                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |
| FB568                        | 1-410-397-21 | FERRITE BEAD INDUCTOR |

## FILTER

|       |              |                  |
|-------|--------------|------------------|
| FL201 | 1-235-097-00 | FILTER, LOW PASS |
|-------|--------------|------------------|

## IC

|       |              |                  |
|-------|--------------|------------------|
| IC201 | 8-759-140-53 | IC UPD4053BC     |
| IC202 | 8-759-103-19 | IC UPC319C       |
| IC203 | 8-759-618-48 | IC M51848L       |
| IC204 | 8-759-140-53 | IC UPD4053BC     |
| IC205 | 8-759-103-19 | IC UPC319C       |
| IC206 | 8-759-103-19 | IC UPC319C       |
| IC207 | 8-759-133-90 | IC UPC339C       |
| IC209 | 8-759-902-21 | IC SN74LS221N    |
| IC210 | 8-759-902-21 | IC SN74LS221N    |
| IC211 | 8-759-202-13 | IC TC74HC04P     |
| IC212 | 8-757-930-11 | IC CX-7930A      |
| IC213 | 8-759-990-82 | IC TL082CP       |
| IC214 | 8-759-603-53 | IC M51271SP      |
| IC215 | 8-759-202-14 | IC TC74HC08P     |
| IC216 | 8-759-202-14 | IC TC74HC08P     |
| IC217 | 8-752-030-77 | IC V7040         |
| IC218 | 8-759-271-58 | IC TA7158P       |
| IC219 | 8-759-140-53 | IC UPD4053BC     |
| IC220 | 8-759-990-82 | IC TL082CP       |
| IC221 | 8-759-271-58 | IC TA7158P       |
| IC222 | 8-759-618-48 | IC M51848L       |
| IC223 | 8-759-103-19 | IC UPC319C       |
| IC224 | 8-759-202-13 | IC TC74HC04P     |
| IC225 | 8-759-929-14 | IC BA1332L       |
| IC501 | 8-759-970-08 | IC MSM72033GS-VK |
| IC502 | 8-759-109-75 | IC UPD41221C-70  |
| IC503 | 8-759-109-75 | IC UPD41221C-70  |
| IC504 | 8-759-902-21 | IC SN74LS221N    |
| IC505 | 8-759-902-21 | IC SN74LS221N    |
| IC601 | 8-759-140-53 | IC UPD4053BC     |
| IC602 | 8-759-145-58 | IC UPC4558C      |
| IC603 | 8-759-700-04 | IC NJM2043D-D    |

| Remark | Ref.No            | Part No.     | Description           | Remark |
|--------|-------------------|--------------|-----------------------|--------|
|        | <u>COIL</u>       |              |                       |        |
|        | L201              | 1-408-427-00 | MICRO INDUCTOR 330UH  |        |
|        | L202              | 1-408-423-00 | MICRO INDUCTOR 150UH  |        |
|        | L203              | 1-408-597-00 | MICRO INDUCTOR 3.3UH  |        |
|        | L204              | 1-408-411-00 | MICRO INDUCTOR 15UH   |        |
|        | L205              | 1-408-417-00 | MICRO INDUCTOR 47UH   |        |
|        | L207              | 1-408-421-00 | MICRO INDUCTOR 100UH  |        |
|        | L208              | 1-408-417-00 | MICRO INDUCTOR 47UH   |        |
|        | L209              | 1-408-417-00 | MICRO INDUCTOR 47UH   |        |
|        | L210              | 1-408-407-00 | MICRO INDUCTOR 6.8UH  |        |
|        | L211              | 1-408-419-00 | MICRO INDUCTOR 68UH   |        |
|        | <u>IC LINK</u>    |              |                       |        |
|        | PS010A            | 1-532-686-21 | LINK, IC              |        |
|        | PS011A            | 1-532-686-21 | LINK, IC              |        |
|        | PS012A            | 1-532-685-00 | LINK, IC              |        |
|        | PS013A            | 1-532-679-00 | LINK, IC              |        |
|        | <u>TRANSISTOR</u> |              |                       |        |
|        | Q201              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q202              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q203              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
|        | Q204              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
|        | Q205              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q206              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q207              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q208              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q209              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
|        | Q210              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q211              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
|        | Q213              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q214              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q215              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q216              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
|        | Q217              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q218              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q219              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q220              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q221              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q222              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
|        | Q223              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q224              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q225              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q226              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
|        | Q227              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q228              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
|        | Q229              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q230              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q231              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q232              | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |
|        | Q233              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
|        | Q234              | 8-729-115-10 | TRANSISTOR 2SK105A-10 |        |
|        | Q235              | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |

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When indicating parts by reference number, please include the board name.

| Ref.No | Part No.     | Description           | Remark | Ref.No   | Part No.     | Description         | Remark |
|--------|--------------|-----------------------|--------|----------|--------------|---------------------|--------|
| Q236   | 8-729-266-93 | TRANSISTOR 2SC2669    |        | RESISTOR |              |                     |        |
| Q237   | 8-729-900-74 | TRANSISTOR DTC143TS   |        | R011     | 1-249-409-11 | CARBON 220 5% 1/4W  |        |
| Q239   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R012     | 1-249-409-11 | CARBON 220 5% 1/4W  |        |
| Q240   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R013     | 1-249-409-11 | CARBON 220 5% 1/4W  |        |
| Q241   | 8-729-900-89 | TRANSISTOR DTC144ES   |        | R014     | 1-249-409-11 | CARBON 220 5% 1/4W  |        |
| Q242   | 8-729-900-80 | TRANSISTOR DTC114ES   |        | R201     | 1-215-394-00 | CARBON 75 5% 1/4W   |        |
| Q243   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R202     | 1-215-394-00 | CARBON 75 5% 1/4W   |        |
| Q244   | 8-729-105-70 | TRANSISTOR 2SK523-K1  |        | R203     | 1-249-421-11 | CARBON 2.2K 5% 1/4W |        |
| Q245   | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        | R204     | 1-249-421-11 | CARBON 2.2K 5% 1/4W |        |
| Q246   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R205     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q247   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R206     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q248   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R207     | 1-249-421-11 | CARBON 2.2K 5% 1/4W |        |
| Q250   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R208     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q251   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R209     | 1-249-421-11 | CARBON 2.2K 5% 1/4W |        |
| Q252   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R210     | 1-249-421-11 | CARBON 2.2K 5% 1/4W |        |
| Q253   | 8-729-697-92 | TRANSISTOR 2SA979     |        | R211     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q254   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R212     | 1-249-421-11 | CARBON 2.2K 5% 1/4W |        |
| Q255   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R213     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q256   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R214     | 1-249-435-11 | CARBON 33K 5% 1/4W  |        |
| Q257   | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        | R215     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q258   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R216     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q259   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R217     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q260   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R218     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q261   | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        | R219     | 1-249-429-11 | CARBON 10K 5% 1/4W  |        |
| Q262   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R220     | 1-249-437-11 | CARBON 47K 5% 1/4W  |        |
| Q263   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R221     | 1-249-423-11 | CARBON 3.3K 5% 1/4W |        |
| Q264   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R222     | 1-249-423-11 | CARBON 3.3K 5% 1/4W |        |
| Q265   | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        | R223     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q266   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R224     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q267   | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        | R225     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q268   | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        | R226     | 1-247-831-31 | CARBON 1K 5% 1/4W   |        |
| Q269   | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        | R227     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q270   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R228     | 1-247-887-00 | CARBON 220K 5% 1/4W |        |
| Q271   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R231     | 1-215-424-00 | CARBON 1.3K 5% 1/4W |        |
| Q272   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R232     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q273   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R233     | 1-249-429-11 | CARBON 10K 5% 1/4W  |        |
| Q274   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R234     | 1-249-421-11 | CARBON 2.2K 5% 1/4W |        |
| Q275   | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        | R235     | 1-249-420-11 | CARBON 1.8K 5% 1/4W |        |
| Q276   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R236     | 1-249-421-11 | CARBON 2.2K 5% 1/4W |        |
| Q277   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R238     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q279   | 8-729-900-89 | TRANSISTOR DTC144ES   |        | R239     | 1-249-431-11 | CARBON 15K 5% 1/4W  |        |
| Q280   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R240     | 1-249-423-11 | CARBON 3.3K 5% 1/4W |        |
| Q281   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R241     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q282   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R242     | 1-249-413-11 | CARBON 470 5% 1/4W  |        |
| Q501   | 8-729-900-80 | TRANSISTOR DTC114ES   |        | R243     | 1-249-425-11 | CARBON 4.7K 5% 1/4W |        |
| Q601   | 8-729-115-10 | TRANSISTOR 2SK105A-10 |        | R244     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q602   | 8-729-115-10 | TRANSISTOR 2SK105A-10 |        | R245     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q603   | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        | R246     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q604   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R247     | 1-249-419-11 | CARBON 1.5K 5% 1/4W |        |
| Q605   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R248     | 1-249-438-11 | CARBON 56K 5% 1/4W  |        |
| Q801   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R249     | 1-249-429-11 | CARBON 10K 5% 1/4W  |        |
| Q802   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        | R250     | 1-249-423-11 | CARBON 3.3K 5% 1/4W |        |
| Q803   | 8-729-600-27 | TRANSISTOR 2SC634SP   |        |          |              |                     |        |

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# DT-67

| Ref.No | Part No.     | Description | Remark       | Ref.No | Part No.     | Description | Remark       |
|--------|--------------|-------------|--------------|--------|--------------|-------------|--------------|
| R251   | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W | R304   | 1-247-863-31 | CARBON      | 22K 5% 1/4W  |
| R252   | 1-249-413-11 | CARBON      | 470 5% 1/4W  | R305   | 1-249-431-11 | CARBON      | 15K 5% 1/4W  |
| R253   | 1-249-409-11 | CARBON      | 220 5% 1/4W  | R306   | 1-249-438-11 | CARBON      | 56K 5% 1/4W  |
| R254   | 1-249-413-11 | CARBON      | 470 5% 1/4W  | R307   | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W |
| R255   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R308   | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W |
| R256   | 1-249-441-11 | CARBON      | 100K 5% 1/4W | R309   | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R257   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W | R310   | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R258   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W | R311   | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R259   | 1-249-415-11 | CARBON      | 680 5% 1/4W  | R312   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R260   | 1-249-415-11 | CARBON      | 680 5% 1/4W  | R313   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R261   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R314   | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R262   | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W | R316   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R263   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R318   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R264   | 1-249-418-11 | CARBON      | 1.2K 5% 1/4W | R319   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |
| R265   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R320   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |
| R266   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R321   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R267   | 1-249-413-11 | CARBON      | 470 5% 1/4W  | R322   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R268   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R323   | 1-249-405-11 | CARBON      | 100 5% 1/4W  |
| R269   | 1-249-441-11 | CARBON      | 100K 5% 1/4W | R324   | 1-249-411-11 | CARBON      | 330 5% 1/4W  |
| R270   | 1-249-436-11 | CARBON      | 39K 5% 1/4W  | R325   | 1-215-394-00 | CARBON      | 75 5% 1/4W   |
| R271   | 1-249-428-11 | CARBON      | 8.2K 5% 1/4W | R326   | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R272   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R328   | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R273   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R329   | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R274   | 1-249-413-11 | CARBON      | 470 5% 1/4W  | R332   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |
| R275   | 1-249-409-11 | CARBON      | 220 5% 1/4W  | R333   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W |
| R276   | 1-249-413-11 | CARBON      | 470 5% 1/4W  | R334   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R277   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  | R335   | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| R278   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  | R336   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |
| R279   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W | R337   | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W |
| R280   | 1-215-418-00 | CARBON      | 750 5% 1/4W  | R338   | 1-249-407-11 | CARBON      | 150 5% 1/4W  |
| R281   | 1-249-416-11 | CARBON      | 820 5% 1/4W  | R339   | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R282   | 1-215-410-00 | CARBON      | 360 5% 1/4W  | R340   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R283   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R341   | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R284   | 1-249-432-11 | CARBON      | 18K 5% 1/4W  | R342   | 1-249-436-11 | CARBON      | 39K 5% 1/4W  |
| R285   | 1-249-411-11 | CARBON      | 330 5% 1/4W  | R343   | 1-249-434-11 | CARBON      | 27K 5% 1/4W  |
| R286   | 1-249-409-11 | CARBON      | 220 5% 1/4W  | R344   | 1-215-432-00 | CARBON      | 3K 5% 1/4W   |
| R287   | 1-249-414-11 | CARBON      | 560 5% 1/4W  | R345   | 1-249-434-11 | CARBON      | 27K 5% 1/4W  |
| R288   | 1-249-415-11 | CARBON      | 680 5% 1/4W  | R346   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R289   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R347   | 1-249-430-11 | CARBON      | 12K 5% 1/4W  |
| R290   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R348   | 1-249-430-11 | CARBON      | 12K 5% 1/4W  |
| R291   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R349   | 1-215-493-00 | CARBON      | 1M 5% 1/4W   |
| R292   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W | R350   | 1-215-493-00 | CARBON      | 1M 5% 1/4W   |
| R293   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W | R351   | 1-215-493-00 | CARBON      | 1M 5% 1/4W   |
| R294   | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W | R352   | 1-215-493-00 | CARBON      | 1M 5% 1/4W   |
| R295   | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W | R353   | 1-247-849-00 | CARBON      | 5.6K 5% 1/4W |
| R296   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R354   | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R297   | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W | R355   | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R298   | 1-249-441-11 | CARBON      | 100K 5% 1/4W | R356   | 1-247-895-00 | CARBON      | 470K 5% 1/4W |
| R299   | 1-249-415-11 | CARBON      | 680 5% 1/4W  | R357   | 1-247-863-31 | CARBON      | 22K 5% 1/4W  |
| R300   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R358   | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R301   | 1-215-493-00 | CARBON      | 1M 5% 1/4W   | R359   | 1-249-435-11 | CARBON      | 33K 5% 1/4W  |
| R302   | 1-247-883-00 | CARBON      | 150K 5% 1/4W | R360   | 1-249-411-11 | CARBON      | 330 5% 1/4W  |
| R303   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  | R361   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |

When indicating parts by reference number, please include the board name.



| Ref.No | Part No.     | Description | Remark |    |      | Ref.No | Part No.     | Description | Remark |    |      |
|--------|--------------|-------------|--------|----|------|--------|--------------|-------------|--------|----|------|
| R362   | 1-249-431-11 | CARBON      | 15K    | 5% | 1/4W | R416   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R363   | 1-249-431-11 | CARBON      | 15K    | 5% | 1/4W | R417   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W |
| R364   | 1-247-863-31 | CARBON      | 22K    | 5% | 1/4W | R418   | 1-249-412-11 | CARBON      | 390    | 5% | 1/4W |
| R365   | 1-249-431-11 | CARBON      | 15K    | 5% | 1/4W | R419   | 1-249-421-11 | CARBON      | 2.2K   | 5% | 1/4W |
| R366   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W | R420   | 1-249-405-11 | CARBON      | 100    | 5% | 1/4W |
| R367   | 1-249-421-11 | CARBON      | 2.2K   | 5% | 1/4W | R421   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R368   | 1-249-440-11 | CARBON      | 82K    | 5% | 1/4W | R422   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W |
| R369   | 1-247-863-31 | CARBON      | 22K    | 5% | 1/4W | R423   | 1-249-423-11 | CARBON      | 3.3K   | 5% | 1/4W |
| R370   | 1-249-436-11 | CARBON      | 39K    | 5% | 1/4W | R424   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W |
| R371   | 1-249-425-11 | CARBON      | 4.7K   | 5% | 1/4W | R425   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W |
| R372   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W | R426   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R373   | 1-249-403-11 | CARBON      | 68     | 5% | 1/4W | R427   | 1-249-418-11 | CARBON      | 1.2K   | 5% | 1/4W |
| R374   | 1-249-405-11 | CARBON      | 100    | 5% | 1/4W | R428   | 1-249-421-11 | CARBON      | 2.2K   | 5% | 1/4W |
| R375   | 1-249-425-11 | CARBON      | 4.7K   | 5% | 1/4W | R429   | 1-249-425-11 | CARBON      | 4.7K   | 5% | 1/4W |
| R376   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W | R430   | 1-249-425-11 | CARBON      | 4.7K   | 5% | 1/4W |
| R377   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R431   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R378   | 1-249-425-11 | CARBON      | 4.7K   | 5% | 1/4W | R432   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R379   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R433   | 1-249-421-11 | CARBON      | 2.2K   | 5% | 1/4W |
| R380   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R434   | 1-249-411-11 | CARBON      | 330    | 5% | 1/4W |
| R381   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W | R435   | 1-249-421-11 | CARBON      | 2.2K   | 5% | 1/4W |
| R382   | 1-249-435-11 | CARBON      | 33K    | 5% | 1/4W | R436   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R383   | 1-249-435-11 | CARBON      | 33K    | 5% | 1/4W | R437   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R384   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R438   | 1-215-419-00 | METAL       | 820    | 1% | 1/6W |
| R385   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R439   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R386   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W | R440   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R387   | 1-249-422-11 | CARBON      | 2.7K   | 5% | 1/4W | R441   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R388   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R442   | 1-249-421-11 | CARBON      | 2.2K   | 5% | 1/4W |
| R389   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R443   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R390   | 1-249-422-11 | CARBON      | 2.7K   | 5% | 1/4W | R444   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W |
| R391   | 1-249-422-11 | CARBON      | 2.7K   | 5% | 1/4W | R445   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W |
| R392   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R446   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R393   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R447   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W |
| R394   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R448   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R395   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R449   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R396   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W | R450   | 1-249-430-11 | CARBON      | 12K    | 5% | 1/4W |
| R397   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W | R451   | 1-249-415-11 | CARBON      | 680    | 5% | 1/4W |
| R398   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W | R452   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R399   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W | R453   | 1-215-442-00 | CARBON      | 7.5K   | 5% | 1/4W |
| R400   | 1-249-435-11 | CARBON      | 33K    | 5% | 1/4W | R455   | 1-249-428-11 | CARBON      | 8.2K   | 5% | 1/4W |
| R401   | 1-249-435-11 | CARBON      | 33K    | 5% | 1/4W | R457   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R402   | 1-215-419-00 | METAL       | 820    | 1% | 1/6W | R458   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R403   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W | R459   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W |
| R404   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W | R460   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R405   | 1-249-411-11 | CARBON      | 330    | 5% | 1/4W | R461   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R406   | 1-249-414-11 | CARBON      | 560    | 5% | 1/4W | R462   | 1-249-419-11 | CARBON      | 1.5K   | 5% | 1/4W |
| R408   | 1-215-428-00 | METAL       | 2K     | 1% | 1/6W | R463   | 1-249-421-11 | CARBON      | 2.2K   | 5% | 1/4W |
| R409   | 1-215-428-00 | METAL       | 2K     | 1% | 1/6W | R464   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W |
| R410   | 1-215-419-00 | METAL       | 820    | 1% | 1/6W | R465   | 1-249-416-11 | CARBON      | 820    | 5% | 1/4W |
| R411   | 1-215-415-00 | METAL       | 560    | 1% | 1/6W | R466   | 1-247-831-31 | CARBON      | 1K     | 5% | 1/4W |
| R412   | 1-215-414-00 | METAL       | 510    | 1% | 1/6W | R467   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W |
| R413   | 1-215-419-00 | METAL       | 820    | 1% | 1/6W | R468   | 1-249-430-11 | CARBON      | 12K    | 5% | 1/4W |
| R414   | 1-249-409-11 | CARBON      | 220    | 5% | 1/4W | R469   | 1-249-421-11 | CARBON      | 2.2K   | 5% | 1/4W |
| R415   | 1-249-413-11 | CARBON      | 470    | 5% | 1/4W | R470   | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |

When indicating parts by reference number, please include the board name.

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| Ref.No | Part No.     | Description | Remark       | Ref.No        | Part No.     | Description | Remark       |
|--------|--------------|-------------|--------------|---------------|--------------|-------------|--------------|
| R471   | 1-249-436-11 | CARBON      | 39K 5% 1/4W  | R572          | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |
| R472   | 1-249-420-11 | CARBON      | 1.8K 5% 1/4W | R573          | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |
| R473   | 1-247-806-00 | CARBON      | 91 5% 1/4W   | R601          | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R474   | 1-247-838-00 | CARBON      | 2K 5% 1/4W   | R602          | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R475   | 1-247-838-00 | CARBON      | 2K 5% 1/4W   | R603          | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R476   | 1-249-409-11 | CARBON      | 220 5% 1/4W  | R604          | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R477   | 1-249-409-11 | CARBON      | 220 5% 1/4W  | R605          | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R478   | 1-249-409-11 | CARBON      | 220 5% 1/4W  | R606          | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R479   | 1-249-414-11 | CARBON      | 560 5% 1/4W  | R607          | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R480   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R608          | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R481   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R609          | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R482   | 1-249-418-11 | CARBON      | 1.2K 5% 1/4W | R610          | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R483   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R611          | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R484   | 1-249-413-11 | CARBON      | 470 5% 1/4W  | R612          | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R485   | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W | R613          | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R486   | 1-249-422-11 | CARBON      | 2.7K 5% 1/4W | R614          | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| R487   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R615          | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| R488   | 1-249-413-11 | CARBON      | 470 5% 1/4W  | R616          | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| R489   | 1-215-487-00 | CARBON      | 560K 5% 1/4W | R617          | 1-215-493-00 | CARBON      | 1M 5% 1/4W   |
| R490   | 1-247-895-00 | CARBON      | 470K 5% 1/4W | R618          | 1-215-493-00 | CARBON      | 1M 5% 1/4W   |
| R491   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R619          | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R492   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R620          | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R493   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R621          | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R494   | 1-215-420-00 | CARBON      | 910 5% 1/4W  | R622          | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R495   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R623          | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| R496   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R624          | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R497   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R625          | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R498   | 1-215-493-00 | CARBON      | 1M 5% 1/4W   | R626          | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R499   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R627          | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R501   | 1-249-441-11 | CARBON      | 100K 5% 1/4W | R628          | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R502   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  | R629          | 1-249-438-11 | CARBON      | 56K 5% 1/4W  |
| R503   | 1-247-863-31 | CARBON      | 22K 5% 1/4W  | R630          | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| R504   | 1-215-440-00 | CARBON      | 6.2K 5% 1/4W | R631          | 1-249-432-11 | CARBON      | 18K 5% 1/4W  |
| R505   | 1-249-441-11 | CARBON      | 100K 5% 1/4W | R632          | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W |
| R506   | 1-249-431-11 | CARBON      | 15K 5% 1/4W  | R633          | 1-249-436-11 | CARBON      | 39K 5% 1/4W  |
| R507   | 1-249-410-11 | CARBON      | 270 5% 1/4W  | R634          | 1-249-431-11 | CARBON      | 15K 5% 1/4W  |
| R508   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W | R635          | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |
| R551   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R636          | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R552   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R651 $\Delta$ | 1-212-873-11 | FUSIBLE     | 47 5% 1/4W F |
| R553   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R652 $\Delta$ | 1-212-873-11 | FUSIBLE     | 47 5% 1/4W F |
| R554   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R653 $\Delta$ | 1-212-873-11 | FUSIBLE     | 47 5% 1/4W F |
| R555   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R654 $\Delta$ | 1-212-873-11 | FUSIBLE     | 47 5% 1/4W F |
| R556   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R655          | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R560   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R701          | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R561   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R702          | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W |
| R562   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R703          | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |
| R563   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R704          | 1-215-420-00 | CARBON      | 910 5% 1/4W  |
| R564   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R705          | 1-247-831-31 | CARBON      | 1K 5% 1/4W   |
| R565   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R706          | 1-249-405-11 | CARBON      | 100 5% 1/4W  |
| R567   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R707          | 1-249-405-11 | CARBON      | 100 5% 1/4W  |
| R569   | 1-249-411-11 | CARBON      | 330 5% 1/4W  | R708          | 1-249-390-11 | CARBON      | 5.6 5% 1/4W  |
| R570   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R709          | 1-249-390-11 | CARBON      | 5.6 5% 1/4W  |
| R571   | 1-247-831-31 | CARBON      | 1K 5% 1/4W   | R710          | 1-215-394-00 | CARBON      | 75 5% 1/4W   |

When indicating parts by reference number, please include the board name.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

DT-67

LH-2

AC-27

AC-28

FT-25

| Ref.No | Part No.       | Description | Remark       | Ref.No | Part No.     | Description     | Remark      |
|--------|----------------|-------------|--------------|--------|--------------|-----------------|-------------|
| R711   | 1-215-394-00   | CARBON      | 75 5% 1/4W   |        |              | <u>DIODE</u>    |             |
| R712   | 1-247-831-31   | CARBON      | 1K 5% 1/4W   | D107   | 8-719-940-98 | DIODE SLR-34UR3 |             |
| R713   | 1-215-493-00   | CARBON      | 1M 5% 1/4W   | D108   | 8-719-940-98 | DIODE SLR-34UR3 |             |
| R714   | △ 1-249-407-11 | CARBON      | 150 5% 1/4W  | D109   | 8-719-940-98 | DIODE SLR-34UR3 |             |
| R715   | 1-215-493-00   | CARBON      | 1M 5% 1/4W   | D110   | 8-719-940-98 | DIODE SLR-34UR3 |             |
|        |                |             |              | D111   | 8-719-812-32 | DIODE TLY123    |             |
| R716   | △ 1-249-413-11 | CARBON      | 470 5% 1/4W  |        |              |                 |             |
| R717   | △ 1-249-409-11 | CARBON      | 220 5% 1/4W  | D112   | 8-719-812-32 | DIODE TLY123    |             |
| R718   | △ 1-249-409-11 | CARBON      | 220 5% 1/4W  | D113   | 8-719-812-32 | DIODE TLY123    |             |
| R719   | △ 1-249-409-11 | CARBON      | 220 5% 1/4W  |        |              | <u>RESISTOR</u> |             |
| R720   | 1-215-420-00   | CARBON      | 910 5% 1/4W  | R101   | 1-249-410-11 | CARBON          | 270 5% 1/4W |
|        |                |             |              | R102   | 1-249-410-11 | CARBON          | 270 5% 1/4W |
| R723   | 1-247-831-31   | CARBON      | 1K 5% 1/4W   | R103   | 1-249-410-11 | CARBON          | 270 5% 1/4W |
| R801   | 1-247-831-31   | CARBON      | 1K 5% 1/4W   | R104   | 1-249-410-11 | CARBON          | 270 5% 1/4W |
| R802   | 1-247-831-31   | CARBON      | 1K 5% 1/4W   | R105   | 1-249-410-11 | CARBON          | 270 5% 1/4W |
| R803   | 1-247-831-31   | CARBON      | 1K 5% 1/4W   |        |              |                 |             |
| R804   | 1-249-421-11   | CARBON      | 2.2K 5% 1/4W | R106   | 1-249-410-11 | CARBON          | 270 5% 1/4W |
|        |                |             |              | R107   | 1-249-410-11 | CARBON          | 270 5% 1/4W |
| R805   | 1-215-420-00   | CARBON      | 910 5% 1/4W  |        |              |                 |             |
| R806   | 1-247-831-31   | CARBON      | 1K 5% 1/4W   |        |              |                 |             |
| R807   | 1-247-831-31   | CARBON      | 1K 5% 1/4W   |        |              |                 |             |
| R811   | 1-249-438-11   | CARBON      | 56K 5% 1/4W  |        |              |                 |             |
| R812   | 1-249-435-11   | CARBON      | 33K 5% 1/4W  |        |              |                 |             |
|        |                |             |              |        |              |                 |             |
| R813   | 1-215-448-00   | METAL       | 13K 1% 1/6W  |        |              |                 |             |
| R814   | 1-247-831-31   | CARBON      | 1K 5% 1/4W   |        |              |                 |             |
| R815   | 1-249-435-11   | CARBON      | 33K 5% 1/4W  |        |              |                 |             |
| R816   | 1-249-429-11   | CARBON      | 10K 5% 1/4W  |        |              |                 |             |
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When indicating parts by reference number, please include the board name.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.



# FT-25

# AI-3

| Ref.No                   | Part No.     | Description              | Remark |
|--------------------------|--------------|--------------------------|--------|
| <u>DIODE</u>             |              |                          |        |
| D101                     | 8-719-812-32 | DIODE TLR123             |        |
| D102                     | 8-719-812-32 | DIODE TLR123             |        |
| D103                     | 8-719-940-98 | DIODE SLR-34UR3          |        |
| D104                     | 8-719-812-32 | DIODE TLR123             |        |
| D105                     | 8-719-812-32 | DIODE TLR123             |        |
| D106                     | 8-719-812-32 | DIODE TLR123             |        |
| D114                     | 8-719-911-19 | DIODE 1SS119             |        |
| D115                     | 8-719-911-19 | DIODE 1SS119             |        |
| D116                     | 8-719-911-19 | DIODE 1SS119             |        |
| D117                     | 8-719-911-19 | DIODE 1SS119             |        |
| D118                     | 8-719-911-19 | DIODE 1SS119             |        |
| D119                     | 8-719-911-19 | DIODE 1SS119             |        |
| D120                     | 8-719-911-19 | DIODE 1SS119             |        |
| D121                     | 8-719-911-19 | DIODE 1SS119             |        |
| D122                     | 8-719-911-19 | DIODE 1SS119             |        |
| D123                     | 8-719-911-19 | DIODE 1SS119             |        |
| D124                     | 8-719-911-19 | DIODE 1SS119             |        |
| D125                     | 8-719-911-19 | DIODE 1SS119             |        |
| <u>JACK</u>              |              |                          |        |
| J101                     | 1-507-834-21 | JACK                     |        |
| <u>RESISTOR</u>          |              |                          |        |
| R108                     | 1-249-410-11 | CARBON 270 5% 1/4W       |        |
| R109                     | 1-249-410-11 | CARBON 270 5% 1/4W       |        |
| R110                     | 1-249-410-11 | CARBON 270 5% 1/4W       |        |
| R111                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R112                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R113                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R114                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R115                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R116                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R117                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R118                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R119                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R120                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R121                     | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R122                     | 1-249-410-11 | CARBON 270 5% 1/4W       |        |
| R123                     | 1-249-410-11 | CARBON 270 5% 1/4W       |        |
| <u>VARIABLE RESISTOR</u> |              |                          |        |
| RV101                    | 1-237-424-11 | RES, VAR, CARBON 10K/10K |        |
| RV102                    | 1-237-400-11 | RES, VAR, CARBON 10K     |        |
| RV103                    | 1-237-420-11 | RES, VAR, CARBON 1K      |        |
| <u>SWITCH</u>            |              |                          |        |
| SW101                    | 1-570-797-11 | SWITCH, PUSH (1 KEY)     |        |
| SW102                    | 1-570-797-21 | SWITCH, PUSH (1 KEY)     |        |
| SW103                    | 1-570-797-11 | SWITCH, PUSH (1 KEY)     |        |
| SW104                    | 1-570-797-11 | SWITCH, PUSH (1 KEY)     |        |
| SW105                    | 1-570-823-11 | SWITCH, PUSH (4 KEY)     |        |

| Ref.No                                   | Part No.                       | Description                                   | Remark        |
|------------------------------------------|--------------------------------|-----------------------------------------------|---------------|
| SW106                                    | 1-570-798-11                   | SWITCH, PUSH (3 KEY)                          |               |
| SW107                                    | 1-570-796-11                   | SWITCH, ROTARY                                |               |
| *****                                    |                                |                                               |               |
|                                          | *1-620-466-13                  | AI-3 BOARD                                    | *****         |
| <u>CAPACITOR</u>                         |                                |                                               |               |
| CO01                                     | 1-102-074-00                   | CERAMIC 0.001MF 10% 50V                       |               |
| CO03                                     | 1-161-772-11                   | CERAMIC 0.1MF 10% 25V                         |               |
| *****                                    |                                |                                               |               |
| <u>MISCELLANEOUS</u>                     |                                |                                               |               |
| *****                                    |                                |                                               |               |
|                                          | <del>A.1-551-884-00</del>      | <del>CORD, POWER (UK MODEL)</del>             |               |
|                                          | <del>A.1-551-908-31</del>      | <del>CORD, POWER, EURO PLUG (AEP MODEL)</del> |               |
| IC001                                    | 8-759-604-29                   | IC M5F7805                                    |               |
| IC002                                    | 8-759-604-29                   | IC M5F7805                                    |               |
| IC003                                    | 8-759-604-47                   | IC M5F7905                                    |               |
|                                          | <del>PT001A.1-448-999-11</del> | <del>TRANSFORMER, POWER</del>                 |               |
| *****                                    |                                |                                               |               |
| <u>ACCESSORIES AND PACKING MATERIALS</u> |                                |                                               |               |
| *****                                    |                                |                                               |               |
|                                          | <u>Part No.</u>                | <u>Description</u>                            | <u>Remark</u> |
|                                          | *2-118-248-11                  | INDIVIDUAL CARTON                             |               |
|                                          | *2-118-252-01                  | CUSHION (REAR)                                |               |
|                                          | *2-118-253-01                  | CUSHION (FRONT)                               |               |
|                                          | *2-118-263-01                  | CUSHION (UPPER)                               |               |
|                                          | *2-372-545-01                  | SHEET, PROTECTION                             |               |
|                                          | 3-765-602-11                   | MANUAL, INSTRUCTION                           |               |
| *****                                    |                                |                                               |               |

When indicating parts by reference number, please include the board name.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

## SECTION 6 ELECTRICAL ADJUSTMENTS

During the adjustment, see the parts location diagram relevant to the adjustment on page 80.

### [Equipment Required]

- (1) Color monitor TV
- (2) Oscilloscope : Single or dual trace, Bandwidth of more than 15 MHz with delay mode
- (3) Frequency counter (more than 6 digits)
- (4) PAL pattern generator
- (5) Digital voltmeter
- (6) Audio signal generator
- (7) Attenuator
- (8) Audio level meter

### [Setup for Adjustment]

In this adjustment, the PAL pattern generator is to be connected to the VIDEO INPUT 1 terminal for use as a video input signal.

Connect the oscilloscope to the VIDEO INPUT 1 terminal of the DT-67 board and check a video input signal.

What to be checked are ;

- (1) The amplitude of a horizontal sync signal should be approx. 0.3Vp-p.
- (2) The amplitude of a video signal should be approx. 0.7Vp-p.
- (3) The amplitude of a burst signal should be approx. 0.3Vp-p.

Fig.1 shows the video (color bar) signal used for adjustment.

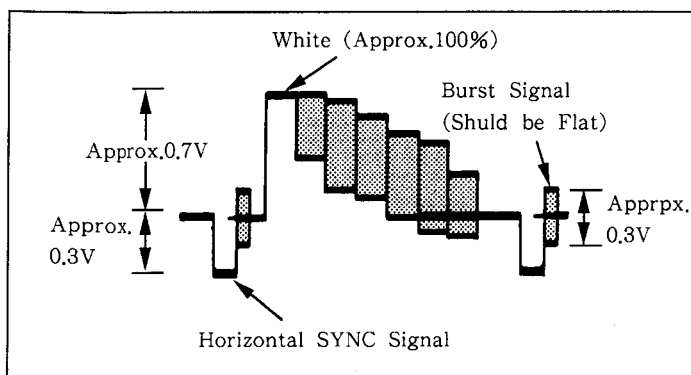


Fig.1 Color Signal of Pattern Generator

### [Setting of Input Select Switches]

Set as follows the input select switches on the front panels :

MAIN INPUT SELECT switch

(FT-25 board S101).....INPUT 1

TITLE INPUT SELECT SWITCH

(FT-25 board S103).....INPUT 1

### 6-1. POWER SUPPLY ADJUSTMENT

(DT-67 Board)

| Signal                | Arbitrary         |
|-----------------------|-------------------|
| Measurement Equipment | Digital voltmeter |
| +5V adjustment        |                   |
| Measurement Point     | TP003             |
| Adjustment Element    | RV011             |
| Specified Value       | +5.00±0.01Vdc     |
| -5V adjustment        |                   |
| Measurement Point     | TP004             |
| Adjustment Element    | RV012             |
| Specified Value       | -5.00±0.01Vdc     |

### [Adjustment Method]

Adjust each supply voltage to a specified value with each RV.

6-2. VIDEO SYSTEM ADJUSTMENT

6-2-1.Key Signal Clamp Level Adjustment  
(DT-67 Board)

|                       |                           |
|-----------------------|---------------------------|
| Signal                | Color bar                 |
| Measurement Point     | TP210 (collector of Q256) |
| Measurement Equipment | Digital voltmeter         |
| Measurement Element   | RV207                     |
| Specified Value       | - 280±20mVdc              |

[Adjustment Method]

Adjust to -280±20mVdc with RV207.

6-2-2.SUPERIMPOSE Level Adjustment  
(DT-67 Board)

|                       |              |
|-----------------------|--------------|
| Signal                | Color bar    |
| Measurement Point     | TP211        |
| Measurement Equipment | Oscilloscope |
| Adjustment Element    | RV206        |
| Specified Value       | 500±20mVp-p  |

[Adjustment Method]

1. Set the front panel (FT-25 board) switches and control knobs to the following positions :  
REVERSE switch (S104) .....ON  
KEY LEVEL control knob  
(RV102) ..... HIGH  
SUPERIMPOSE LEVEL  
control knob (RV103) .....MAX  
OUTPUT SELECT switch  
(S105) .....TITLE (E/E)
2. Adjust to 500±20mVp-p with RV206.

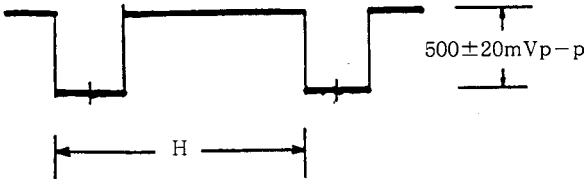


Fig.2

6-2-3. APC Free Run Frequency Adjustment  
(DT-67 Board)

|                       |                        |
|-----------------------|------------------------|
| Signal                | None                   |
| Measurement Point     | TP212 (Pin ⑨ of IC214) |
| Measurement Equipment | Frequency counter      |
| Adjustment Element    | CV202                  |
| Specified Value       | 4433620±10Hz           |

[Adjustment Method]

Adjust to 4433620±10Hz with CV202.

6-2-4.VCO 1 Adjustment (DT-67 Board)

|                       |                          |
|-----------------------|--------------------------|
| Signal                | None                     |
| Measurement Point     | TP222 (Pin ①,② of IC213) |
| Measurement Equipment | Digital Voltmeter        |
| Adjustment Element    | CV204                    |
| Specified Value       | 2.5±0.1Vdc               |

[Adjustment Method]

Adjust to 2.5±0.1Vdc with CV204.

6-2-5.VCO 2 Adjustment (DT-67 Board)

|                       |                         |
|-----------------------|-------------------------|
| Signal                | None                    |
| Measurement Point     | TP218 (Emitter of Q239) |
| Measurement Equipment | Digital Voltmeter       |
| Adjustment Element    | CV201                   |
| Specified Value       | 2.5±0.1Vdc              |

[Adjustment Method]

Adjust to 2.5±0.1Vdc with CV201.

6-2-6.f<sub>o</sub> Adjustment (DT-67 Board)

|                       |                        |
|-----------------------|------------------------|
| Signal                | None                   |
| Measurement Point     | TP220 (Pin ⑫ of IC225) |
| Measurement Equipment | Frequency Counter      |
| Adjustment Element    | RV212                  |
| Specified Value       | 15625±10Hz             |

[Adjustment Method]

Adjust to 15625±10Hz with RV212.



### 6-2-7.HD Pulse Adjustment (DT-67 Board)

| Signal                | Color bar                                                         |
|-----------------------|-------------------------------------------------------------------|
| Measurement Point     | CH1 : TP223 (VIDEO IN 1 terminal)<br>CH2 : TP221 (Pin ⑤ of IC209) |
| Measurement Equipment | Oscilloscope                                                      |
| Adjustment Element    | RV203                                                             |
| Specified Value       | HD pulse falls down at the center of SYNC width.                  |

#### [Adjustment Method]

Adjust RV203 so that HD pulse falls down at the center of SYNC width.

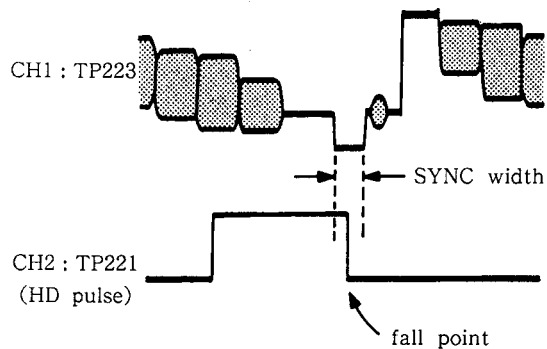


Fig.3

### 6-2-8.APC Phase Adjustment (DT-67 Board)

| Signal                | Color bar                                                    |
|-----------------------|--------------------------------------------------------------|
| Measurement Point     | CH1 : TP214 (Pin ⑮ of IC219)<br>CH2 : FB559 (Pin ⑦ of IC212) |
| Measurement Equipment | Oscilloscope                                                 |
| Adjustment Element    | RV205                                                        |
| Specified Value       | 0Vp-p                                                        |

#### [Adjustment Method]

1. Adjust RV205 so that level of the burst signal (A) which appears right after the last transition point of L.ALT signal becomes 0Vp-p.
2. Confirm that level of the burst signal (B) which appears right after the first transition point of L.ALT signal has more than 350Vp-p.

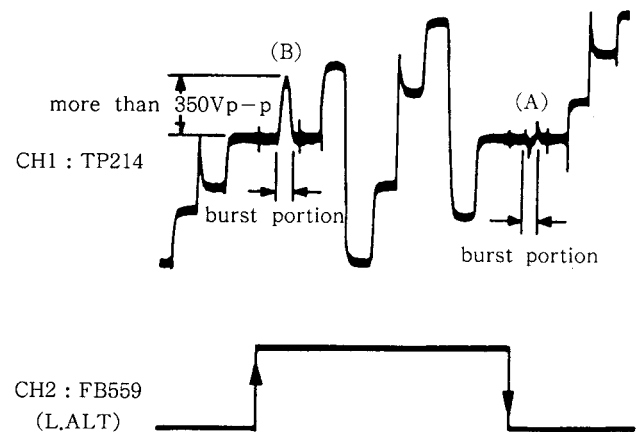


Fig.4

6-2-9.H Reset Pulse Phase Adjustment (DT-67 Board)

|                       |                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------|
| Signal                | Color bar                                                                                                     |
| Measurement Point     | CH1 : TP214 (Pin ⑮ of IC219)<br>CH2 : TP217 (Pin ⑧ of IC217)                                                  |
| Measurement Equipment | Oscilloscope                                                                                                  |
| Measurement Element   | RV204                                                                                                         |
| Specified Value       | Phase difference to be $\pm 0.5\mu\text{sec}$ between demodulation burst pulse (TP214) and burst flag (TP217) |

[Adjustment Method]

Adjust RV204, so that coincide the center of demodulation burst pulse (TP214) with that of burst flag (TP217).

6-2-10.Chroma Level Preset (DT-67 Board)

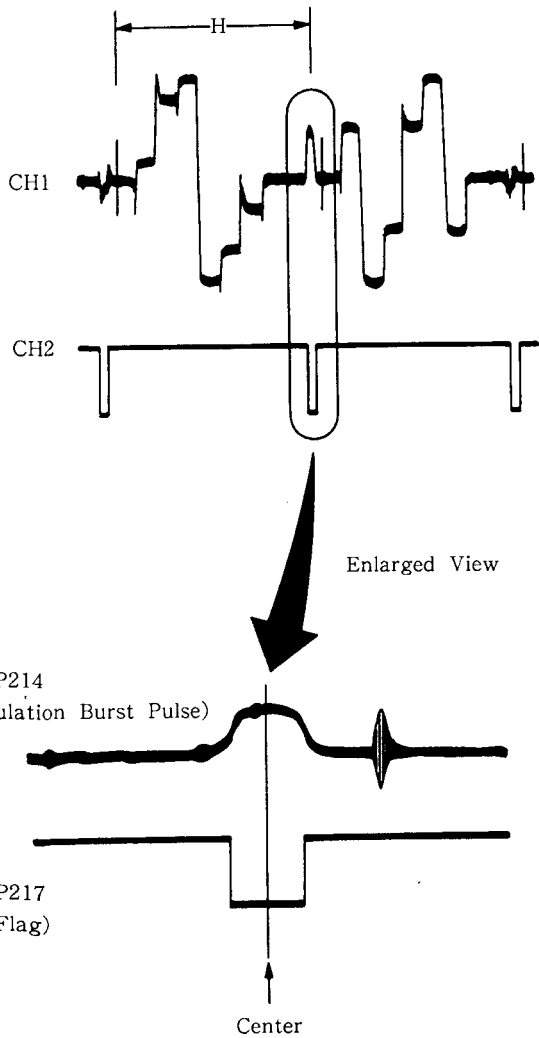


Fig.5

6-2-10.Chroma Level Preset (DT-67 Board)

|                    |               |
|--------------------|---------------|
| Signal             | Arbitrary     |
| Adjustment Element | RV210         |
| Specified Value    | Clockwise MAX |

[Adjustment Method]

Turn RV210 fully clockwise .

6-2-11.Y Level Adjustment (DT-67 Board)

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Signal                | Color bar                                                        |
| Measurement Point     | TP225 or VIDEO OUT 1 terminal (should be 75 $\Omega$ terminated) |
| Measurement Equipment | Oscilloscope                                                     |
| Adjustment Element    | RV209                                                            |
| Specified Value       | $300\pm 10\text{mVp-p}$                                          |

[Adjustment Method]

1. Set the front panel (FT-25 board) switches and control knobs to the following positions :  
REVERSE switch (S104) .....ON  
KEY LEVEL control knob (RV102) .....HIGH  
COLOR SELECT switch (S107) .....YELLOW  
SUPERIMPOSE LEVEL control knob(RV103)MAX  
OUTPUT SELECT switch (S105) .....TITLE (EE)
2. Adjust the SYNC level to  $300\pm 10\text{mVp-p}$  with RV209.

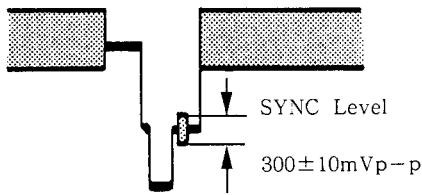


Fig.6

## 6-2-12. Chroma Phase and Chroma Level

### Adjustment (1) (Using the Vectorscope) (DT-67 Board)

| Chroma phase and offset level adjustment |                                                                                                               |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Signal                                   | Color bar                                                                                                     |
| Measurement Point                        | TP225 or VIDEO OUT 1 terminal                                                                                 |
| Measurement Equipment                    | Vectorscope*1                                                                                                 |
| Adjustment Element                       | CV203 (chroma phase)<br>RV208 (offset level)                                                                  |
| Specified Value                          | A yellow bright point should be within the yellow specified frame (inside of $\boxplus$ ) of the vectorscope. |

\*1 The vectorscope should be 75  $\Omega$  terminated.

#### [Adjustment Method]

- Set the front panel (FT-25 board) switches and control knobs to the following positions :  
 REVERSE switch (S104) .....ON  
 KEY LEVEL control (RV102).....HIGH  
 OUTPUT SELECT switch (S105) ..SUPERIMPOSE  
 SUPERIMPOSE LEVEL control knob (RV103) .....MAX
- Set the COLOR SELECT switch (FT-25 board S107) to "YELLOW".  
 { Confirm that each pin voltage of DT-67 board CN202 is as follows :  
 Pins ① (R) and ② (G) .....approx.5Vdc  
 Pin ③ (B) .....approx.0Vdc
- Input the color bar signal and turn the power ON.  
 Confirm that each color spot of color bars is displayed on the vectorscope.
- Press the MEMORY switch (FT-25 board S102).  
 Confirm that there is only one color spot (near a yellow color).
- Adjust RV208 (offset level) and CV203 (chroma phase) so that yellow spot into the yellow specified frame of the vectorscope (inside of  $\boxplus$ ). (Refer to Fig.7.)

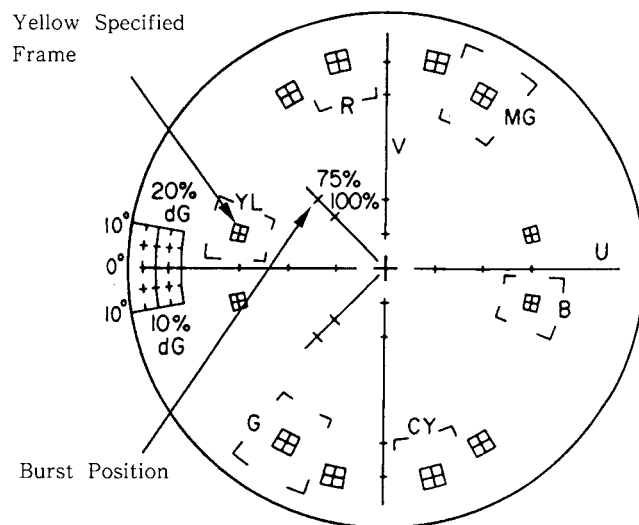


Fig.7



## 6-2-13.Chroma Phase and Chroma Level

### Adjustment (1)

(Using the Oscilloscope) (DT-67 Board)

#### (1) Chroma phase adjustment

|                        |                                                                             |
|------------------------|-----------------------------------------------------------------------------|
| Color phase adjustment |                                                                             |
| Signal                 | Color bar                                                                   |
| Measurement Point      | TP225 or VIDEO OUT 1 terminal (should be 75 $\Omega$ terminated)            |
| Measurement Equipment  | Oscilloscope and monitor TV                                                 |
| Adjustment Element     | CV203                                                                       |
| Specified Value        | A superimposed yellow color should have the same tint as a color bar's one. |

#### [Adjustment Method]

- Set the front panel (FT-25 board) switches and control knob to the following positions :  
REVERSE switch (S104) .....ON  
OUTPUT SELECT switch (S105) .....TITLE (EE)  
SUPERIMPOSE LEVEL  
control knob (RV103) .....MAX
- Set the COLOR SELECT switch (FT-25 board S107) to "YELLOW".

Confirm that each pin voltage of the DT-67 board CN202 is as follows :  
Pins ① (R) and ② (G) .....approx.5Vdc  
Pin ③ (B) .....approx.0Vdc

- Set the KEY LEVEL control knob (FT-25 board RV102) so that the monitor screen will extract only 100% white section of the color bar signal.(Refer to Fig.8.)
- Press the MEMORY switch (FT-25 board S102).
- Set the OUTPUT SELECT switch to "SUPER-IMPOSE". Confirm that the 100% white section of the color bar signal is superimposed on the monitor screen.(A superimposed section is colored almost in yellow.)
- Observing the oscilloscope, equalize the chroma signal amplitude level of the superimposed section's "yellow" and that of the color bar signal's "yellow" to each other with RV208.(Refer to Fig.9.)
- Observing the monitor TV, equalize the tint of the superimposed section's "yellow" and that of the color bar signal's "yellow" to each other with CV203.

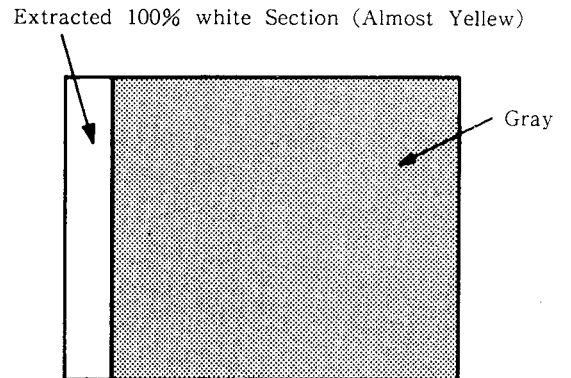


Fig.8

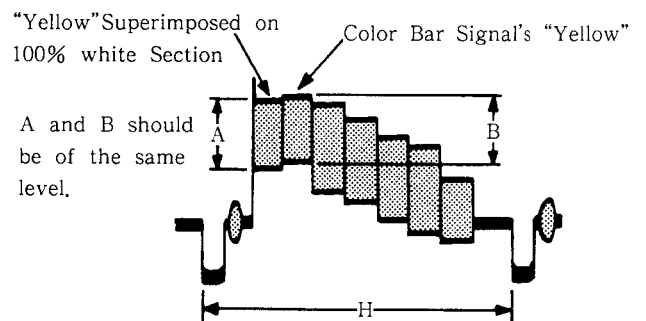


Fig.9

(2) Chroma level adjustment

| Offset level adjustment |                                                                  |
|-------------------------|------------------------------------------------------------------|
| Signal                  | Color bar                                                        |
| Measurement Point       | TP225 or VIDEO OUT 1 terminal (should be 75 $\Omega$ terminated) |
| Measurement Equipment   | Oscilloscope                                                     |
| Adjustment Element      | RV208                                                            |
| Specified Value         | $460 \pm 20 \text{mVp-p}$                                        |

[Adjustment Method]

1. Set the front panel (FT-25 board) switches and control knobs to the following positions :  
REVERSE switch (S104) .....ON  
KEY LEVEL control (RV102).....HIGH  
OUTPUT SELECT switch (S105) ..SUPERIMPOSE  
COLOR SELECT switch (S107) .....YELLOW  
SUPERIMPOSE LEVEL control knob (RV103) MAX
2. Input the color bar signal.
3. Press the MEMORY switch (FT-25 board S102).
4. Adjust the chroma signal level of the VIDEO OUT terminal (should be 72  $\Omega$  terminated) to  $460 \pm 20 \text{mVp-p}$  with RV208.

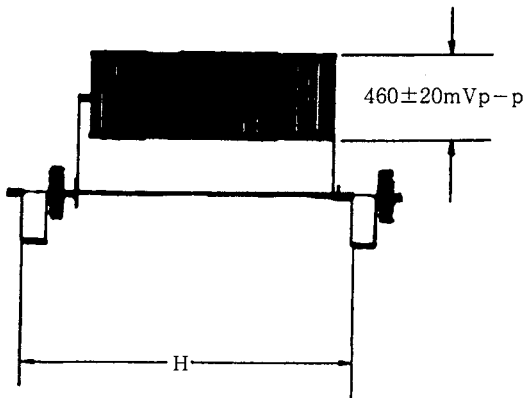


Fig.10

6-2-14.Burst Level Adjustment (DT-67 Board)  
(Using the Vectorscope)

| Signal                | Color bar                                                        |
|-----------------------|------------------------------------------------------------------|
| Measurement Point     | TP225 or VIDEO OUT 1 terminal (should be 75 $\Omega$ terminated) |
| Measurement Equipment | Vectorscope                                                      |
| Adjustment Element    | RV211                                                            |
| Specified Value       | 75% burst position                                               |

[Adjustment Method]

1. Set the OUTPUT SELECT switch (FT-25 board S105) to TITLE (EE) position.
2. Adjust RV211 so that the burst level of output waveform reaches 75% mark on the vectorscope scale.

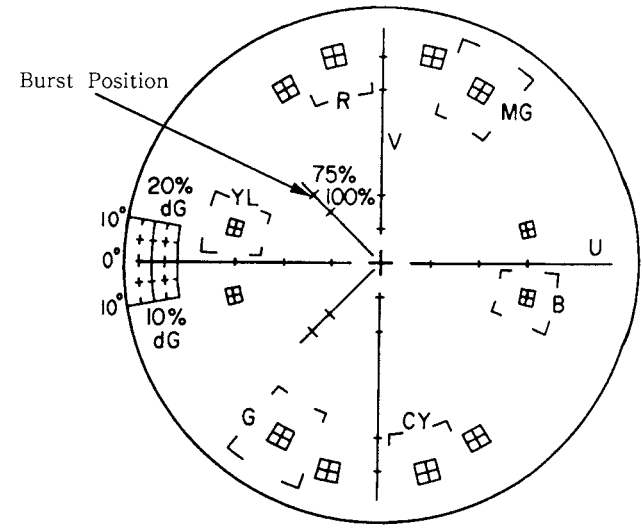


Fig.11

6-2-15.Burst Level Adjustment (DT-67 Board)  
(Using the Oscilloscope)

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Signal                | Arbitrary                                                 |
| Measurement Point     | TP225 or VIDEO OUT 1 terminal (should be 75 Ω terminated) |
| Measurement Equipment | Oscilloscope                                              |
| Adjustment Element    | RV211                                                     |
| Specified Value       | Burst level $300\pm10\text{mVp-p}$                        |

[Adjustment Method]

- Set the front panel (FT-25 board) switch and control knob to the following positions,  
OUTPUT SELECT switch (S105).....TITLE (EE)  
SUPERIMPOSE LEVEL control knob (RV103)MIN
- Adjust the burst level to  $300\pm10\text{mVp-p}$  with RV211.

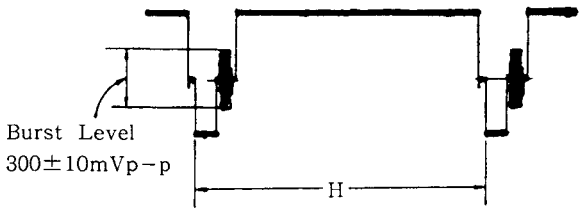


Fig.12

6-2-16.Chroma Signal Level Adjustment (2)  
(Using the vectorscope) (DT-67 Board)

6-2-12,Chroma phase and chroma level adjustment (1)  
on page 73 should be already finished

|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| Signal                | Color bar                                                                                   |
| Measurement Point     | TP225 or VIDEO OUT 1 terminal                                                               |
| Measurement Equipment | Vectorscope* 1                                                                              |
| Adjustment Element    | RV201                                                                                       |
| Specified Value       | A yellow spot should be within the yellow specified frame (inside of ⊞) of the vectorscope. |

The vectorscope should be 75 Ω terminated.

[Adjustment Method]

- Set the front panel (FT-25 board) switches and control knobs to the following positions :  
REVERSE switch (S104) .....ON  
KEY LEVEL control knob (RV102) .....HIGH  
SUPERIMPOSE LEVEL control knob (RV103).....MAX  
OUTPUT SELECT switch (S105) .....TITLE (EE)
- Adjust to yellow spot within the specified frame of the vectorscope with RV201.

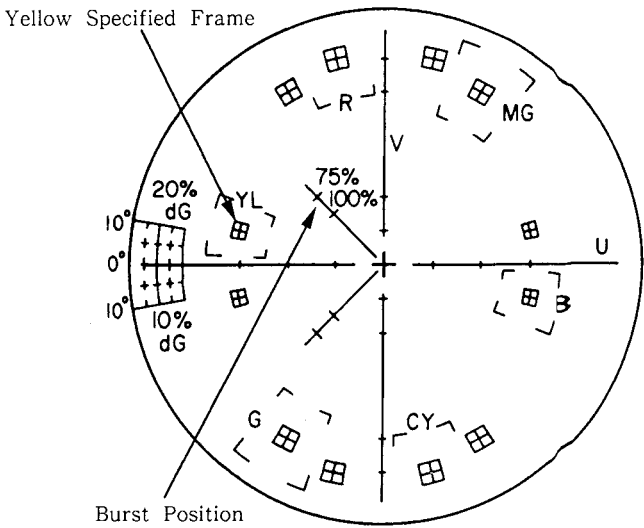


Fig.13



**6-2-17.Chroma Signal Level Adjustment (2)**  
(Using the Oscilloscope) (DT-67 Board)

| Signal                | Color bar                                                        |
|-----------------------|------------------------------------------------------------------|
| Measurement Point     | TP225 or VIDEO OUT 1 terminal (should be 75 $\Omega$ terminated) |
| Measurement Equipment | Oscilloscope                                                     |
| Adjustment Element    | RV201                                                            |
| Specified Value       | $460 \pm 20 \text{mVp-p}$                                        |

**[Adjustment Method]**

- 1.Set the front panel (FT-25 board) switches and control knobs to the following positions :  
REVERSE switch (S104) .....ON  
KEY LEVEL control knob (RV102) .....HIGH  
COLOR SELECT switch (S107) .....YELLOW  
SUPERIMPOSE LEVEL control knob (RV103) .....MAX  
OUTPUT SELECT switch (S105) .....TITLE (E/E)
- 2.Adjust chroma signal level to  $460 \pm 20 \text{mVp-p}$  with RV201.

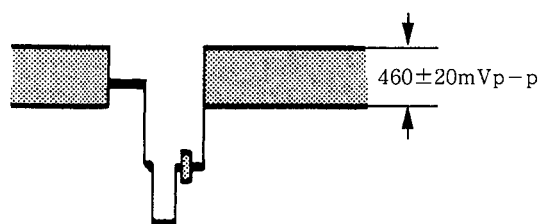


Fig.14

**6-2-18.HWD Adjustment (DT-67 Board)**

| Signal                | Color bar                                                        |
|-----------------------|------------------------------------------------------------------|
| Measurement Point     | TP225 or VIDEO OUT 1 terminal (should be 75 $\Omega$ terminated) |
| Measurement Equipment | Oscilloscope                                                     |
| Adjustment Element    | RV202                                                            |
| Specified Value       | $1.0 \pm 0.1 \text{Vp-p}$                                        |

**[Adjustment Method]**

- 1.Adjust RV202 so that the output waveform at each Title and Superimpose mode becomes  $1.0 \pm 0.1 \text{Vp-p}$ .
- 2.Comfirm that there is no difference on the color bars in monitor screen between Title and Superimpose modes.

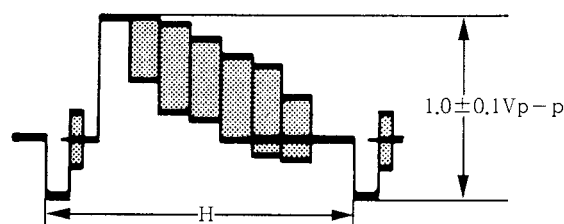


Fig.15

**6-2-19.Blached Black Color Adjustment**  
(DT-67 Board)

| Signal                | Color bar                                                        |
|-----------------------|------------------------------------------------------------------|
| Measurement Point     | TP225 or VIDEO OUT 1 terminal (should be 75 $\Omega$ terminated) |
| Measurement Equipment | Oscilloscope                                                     |
| Adjustment Element    | RV213                                                            |
| Specified Value       | $a = 0 \pm 10 \text{mVp-p}$                                      |

**[Adjustment Method]**

1. Set the TITLE COLOR SELECT switch to black.
2. Adjust to  $a = 0 \pm 10 \text{mVp-p}$  with RV213.

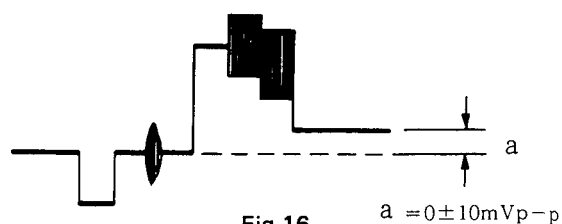


Fig.16

6-3. AUDIO SYSTEM CHECKS

6-3-1.SOURCE Input System Check

R channel's I/O terminals are indicated in brackets  
( [ ] )

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Signal                | 1kHz , - 10dBs ( L [ R ]<br>terminal input of SOURCE<br>INPUT 1) |
| Measurement Point     | L [R] terminal of AUDIO<br>OUTPUT                                |
| Measurement Equipment | Audio generator, atten-<br>uator and audio level<br>meter        |
| Specified Value       | - 10±1.5dBs                                                      |

Connection

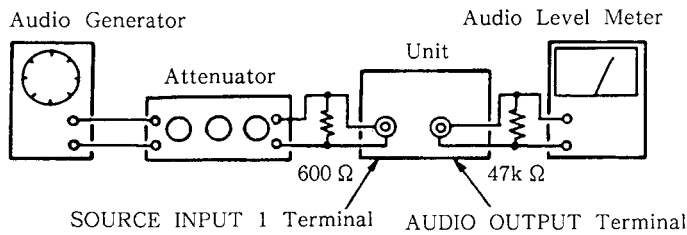


Fig.17

[Confirmation Method]

1. Set MIC LEVEL (FT-25 board RV101) to a "MIN" position.
2. Confirm that the MAIN INPUT SELECT switch (FT-25 board S101) is set to "INPUT 1".
3. AUDIO OUTPUT level should be - 10±1.5dBs.

6-3-2.LINE Input System Check

R channel's I/O terminals are indicated in brackets  
( [ ] )

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Signal                | 1kHz , - 10dBs ( L [ R ]<br>terminal input of LINE<br>INPUT) |
| Measurement Point     | L [R] terminal of AUDIO<br>OUTPUT                            |
| Measurement Equipment | Audio generator, atten-<br>uator and audio level<br>meter    |
| Specified Value       | - 10±1.5dBs                                                  |

Connection

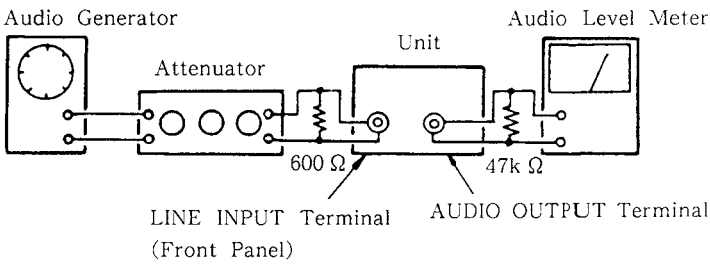


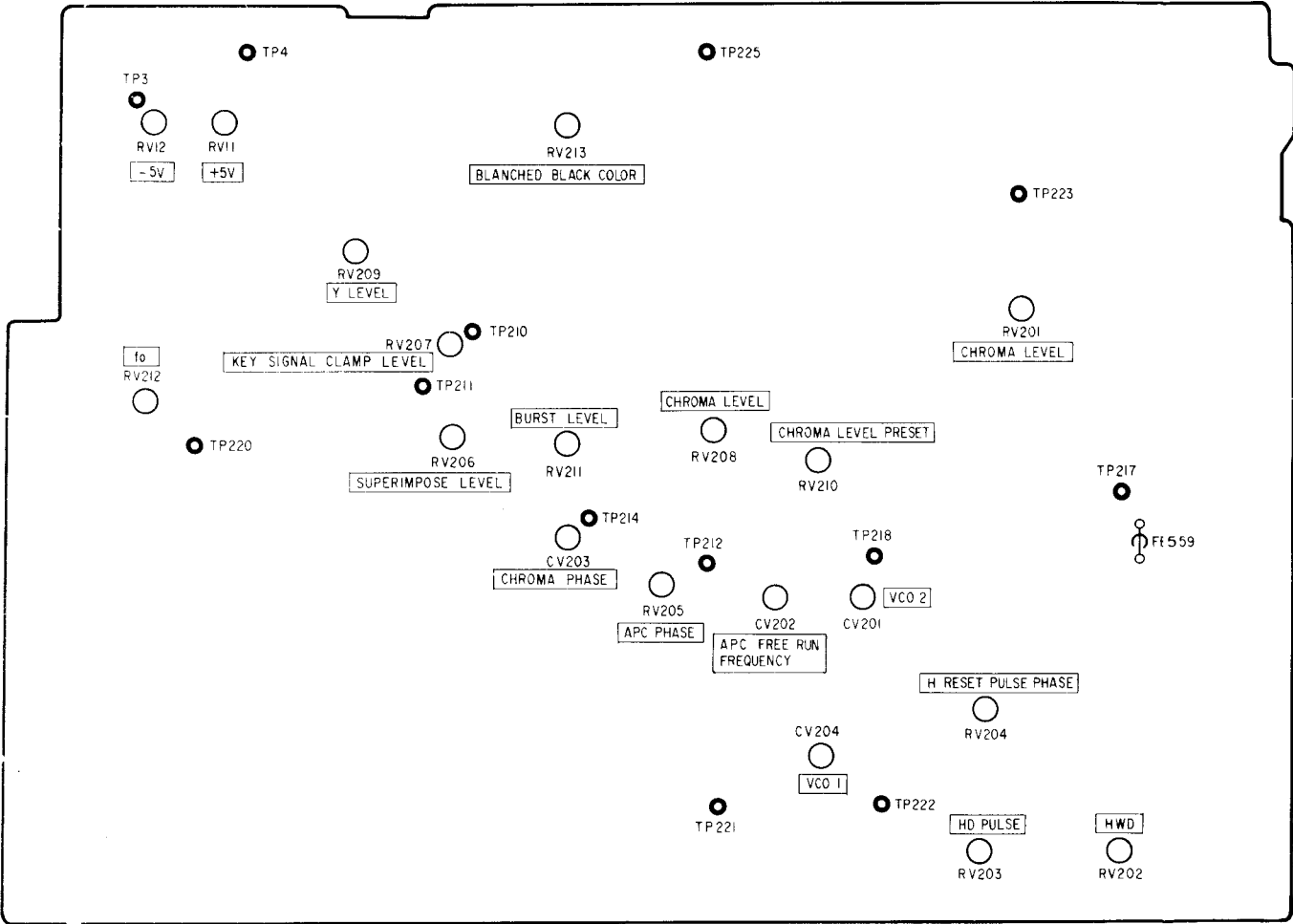
Fig.18

[Confirmation Method]

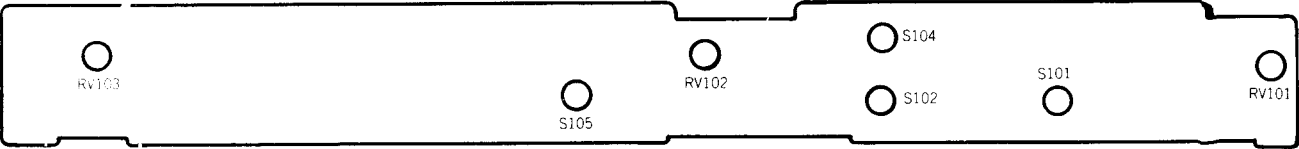
1. Set MIC LEVEL (FT-25 board RV101) to "MIN" position.
2. Set MIX LEVEL (FT-25 board RV101) to "MAX" position.
3. AUDIO OUTPUT level should be - 10±1.5dBs.

ADJUSTING ELEMENTS LOCATION

DT-67 BOARD (component side)



T-25 BOARD (component side)





**XV-T500**

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Consumer Video Group

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